

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082118\
 Data File : VF060023.D
 Acq On : 21 Aug 2018 16:59
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 8/22/2018 10:09:16 AM

Quant Time: Aug 22 04:09:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 03:57:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	241447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	349928	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	368743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	232365	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	17471	3.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	7.84%	
35) Dibromofluoromethane	4.30	113	14589	4.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.48%	
50) Toluene-d8	7.72	98	42734	5.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.86%	
62) 4-Bromofluorobenzene	11.51	95	23284	4.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	19615	4.97	ug/l	91
3) Chloromethane	1.07	50	16611	7.56	ug/l	96
4) Vinyl Chloride	1.12	62	10360	4.32	ug/l	98
5) Bromomethane	1.32	94	8566	3.73	ug/l	92
6) Chloroethane	1.39	64	4180	3.49	ug/l	100
7) Trichlorofluoromethane	1.49	101	22156	3.36	ug/l	97
8) Diethyl Ether	1.70	74	3455	3.47	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.86	101	10462	3.35	ug/l	96
10) Methyl Iodide	1.93	142	12539	3.17	ug/l	97
11) Tert butyl alcohol	2.69	59	4400	17.00	ug/l #	73
12) 1,1-Dichloroethene	1.83	96	7779	3.57	ug/l	87
13) Acrolein	2.09	56	1552	11.09	ug/l #	80
14) Allyl chloride	2.19	41	14483	3.93	ug/l	88
15) Acrylonitrile	3.07	53	9407	22.53	ug/l	90
16) Acetone	2.35	43	21350	15.42	ug/l	96
17) Carbon Disulfide	1.84	76	26025	3.78	ug/l	96
18) Methyl Acetate	2.45	43	11462m	4.34	ug/l	
19) Methyl tert-butyl Ether	2.54	73	24819	3.50	ug/l #	89
20) Methylene Chloride	2.29	84	15003	4.87	ug/l	90
21) trans-1,2-Dichloroethene	2.42	96	9584	4.10	ug/l	84
22) Diisopropyl ether	2.93	45	30275	3.83	ug/l	96
23) Vinyl Acetate	3.33	43	68841	20.82	ug/l	96
24) 1,1-Dichloroethane	3.01	63	20146	3.94	ug/l #	98
25) 2-Butanone	4.51	43	29737	26.01	ug/l	99
26) 2,2-Dichloropropane	3.76	77	19302	4.19	ug/l	89
27) cis-1,2-Dichloroethene	3.65	96	13305	5.86	ug/l	89
28) Bromochloromethane	3.89	49	9050	5.74	ug/l	91
29) Tetrahydrofuran	4.27	42	11950	29.13	ug/l	96
30) Chloroform	4.04	83	27709	4.52	ug/l	90
31) Cyclohexane	3.86	56	16660	6.53	ug/l	94
32) 1,1,1-Trichloroethane	4.28	97	23459	4.01	ug/l	99
36) 1,1-Dichloropropene	4.47	75	18409	4.69	ug/l	99
37) Ethyl Acetate	4.29	43	10050	4.68	ug/l	80
38) Carbon Tetrachloride	4.18	117	21022	3.88	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	18044	6.02	ug/l	99
40) Benzene	4.81	78	41771	6.20	ug/l	90
41) Methacrylonitrile	4.93	41	6031	5.81	ug/l #	84
42) 1,2-Dichloroethane	5.13	62	21815	4.03	ug/l	99
43) Isopropyl Acetate	7.12	43	12857	5.28	ug/l #	100
44) Trichloroethene	5.68	130	14179	5.50	ug/l	91
45) 1,2-Dichloropropane	6.41	63	11108	5.71	ug/l #	87
46) Dibromomethane	6.26	93	8375	4.50	ug/l #	88
47) Bromodichloromethane	6.55	83	20241	4.12	ug/l	94
48) Methyl methacrylate	6.88	41	8868	5.00	ug/l	98
49) 1,4-Dioxane	6.88	88	1625	116.76	ug/l #	81
51) 4-Methyl-2-Pentanone	8.41	43	60872	27.08	ug/l	97
52) Toluene	7.79	92	31099	6.17	ug/l	85
53) t-1,3-Dichloropropene	8.43	75	18648	4.47	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	19444	4.71	ug/l #	84
55) 1,1,2-Trichloroethane	8.64	97	9852	4.89	ug/l #	78
56) Ethyl methacrylate	8.76	69	11200	4.77	ug/l	97
57) 1,3-Dichloropropane	9.01	76	17914	4.98	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.79	63	5470	29.37	ug/l	100
59) 2-Hexanone	9.64	43	47132	25.36	ug/l	97
60) Dibromochloromethane	8.87	129	14394	4.06	ug/l	94
61) 1,2-Dibromoethane	9.14	107	11897	4.80	ug/l	98
64) Tetrachloroethene	8.31	164	15246	5.46	ug/l #	86
65) Chlorobenzene	9.95	112	40703	5.61	ug/l #	87
66) 1,1,1,2-Tetrachloroethane	10.07	131	14120	4.35	ug/l	92
67) Ethyl Benzene	10.04	91	68902	5.27	ug/l	98
68) m/p-Xylenes	10.28	106	55086	11.96	ug/l	89
69) o-Xylene	10.83	106	25774	5.47	ug/l	88
70) Styrene	10.90	104	40645	5.40	ug/l	95
71) Bromoform	10.89	173	9032	3.77	ug/l	95
73) Isopropylbenzene	11.24	105	75110	5.37	ug/l	98
74) N-amyl acetate	11.46	43	21383	5.30	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	16135	5.74	ug/l	93
76) 1,2,3-Trichloropropane	11.89	75	13190	5.45	ug/l	99
77) Bromobenzene	11.60	156	21095	5.43	ug/l	99
78) n-propylbenzene	11.69	91	103237	5.93	ug/l	99
79) 2-Chlorotoluene	11.82	91	58572	5.61	ug/l	97
80) 1,3,5-Trimethylbenzene	11.92	105	67807	5.40	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.97	75	4370m	4.28	ug/l	
82) 4-Chlorotoluene	12.00	91	62917	5.51	ug/l	97
83) tert-Butylbenzene	12.22	119	65941	5.37	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	75641	5.73	ug/l	100
85) sec-Butylbenzene	12.39	105	100251	6.12	ug/l	97
86) p-Isopropyltoluene	12.55	119	77042	5.32	ug/l	95
87) 1,3-Dichlorobenzene	12.56	146	41698	5.62	ug/l	95
88) 1,4-Dichlorobenzene	12.65	146	39073	5.42	ug/l	96
89) n-Butylbenzene	12.92	91	72053	5.15	ug/l	99
90) Hexachloroethane	13.00	117	16800	5.21	ug/l	96
91) 1,2-Dichlorobenzene	13.02	146	36301	5.14	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	3043	4.14	ug/l	50

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MSVOA_F
ClientSampleId :
VSTDICC005

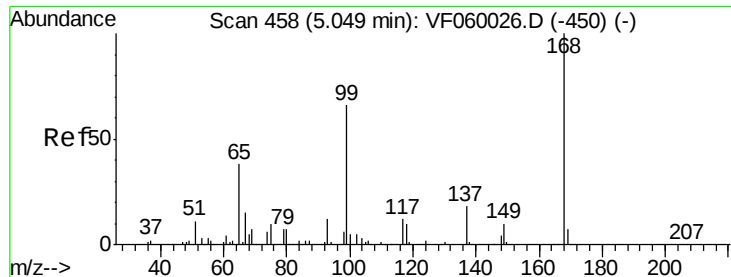
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	26909	4.70	ug/l	97
94) Hexachlorobutadiene	14.26	225	15881	4.23	ug/l	99
95) Naphthalene	14.53	128	32092	3.91	ug/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	23926	4.36	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 241447

Ion Ratio Lower Upper

168 100

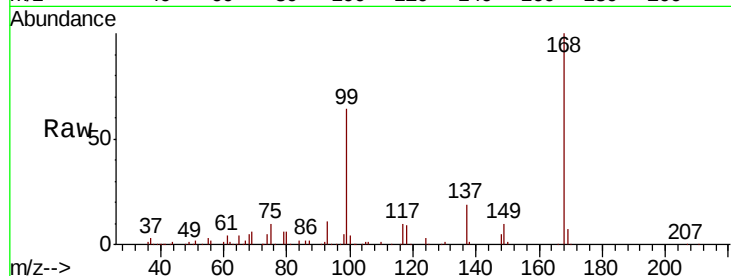
99 63.7 52.6 79.0

Manual Integrations

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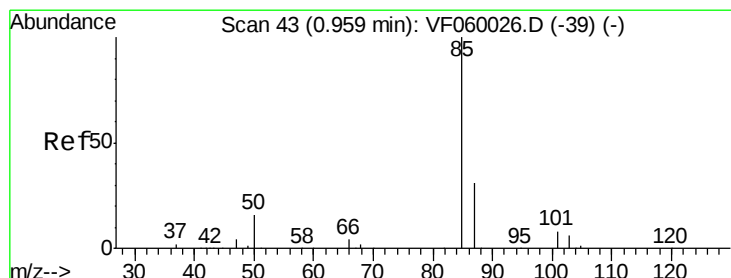
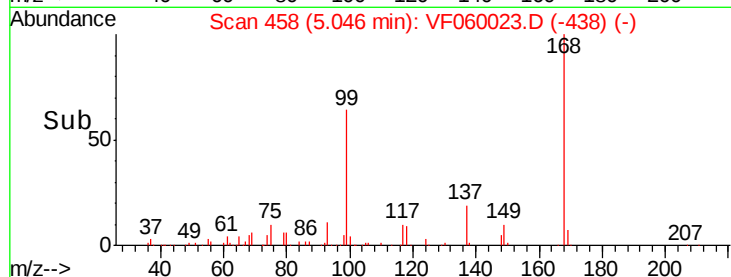
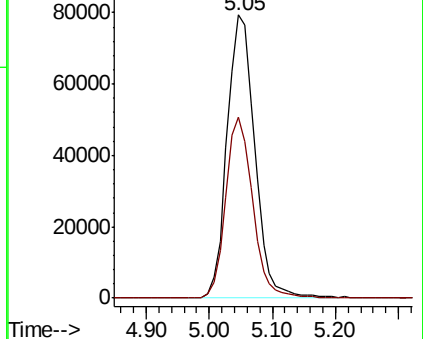
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 4.97 ug/l

RT: 0.96 min Scan# 43

Delta R.T. -0.00 min

Lab File: VF060023.D

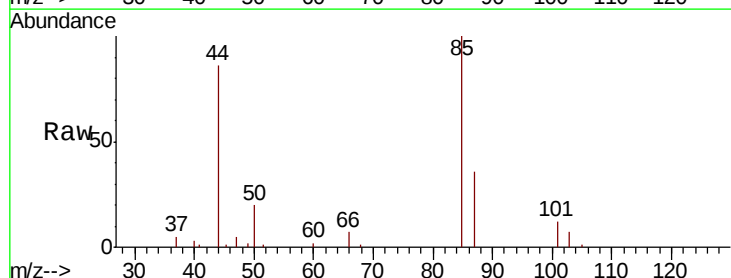
Acq: 21 Aug 2018 16:59

Tgt Ion: 85 Resp: 19615

Ion Ratio Lower Upper

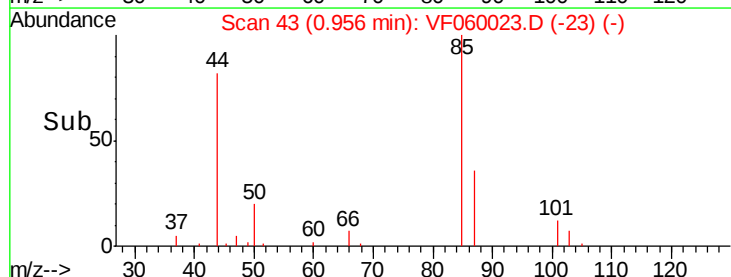
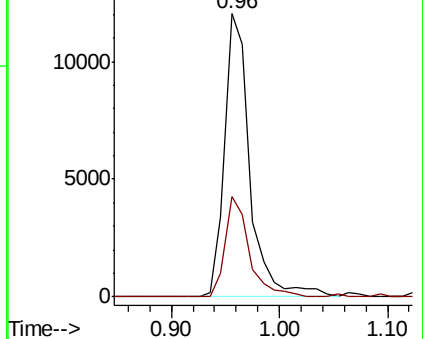
85 100

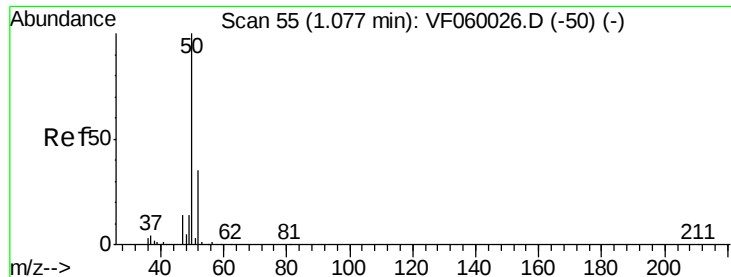
87 35.6 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 7.56 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 16611

Ion Ratio Lower Upper

50 100

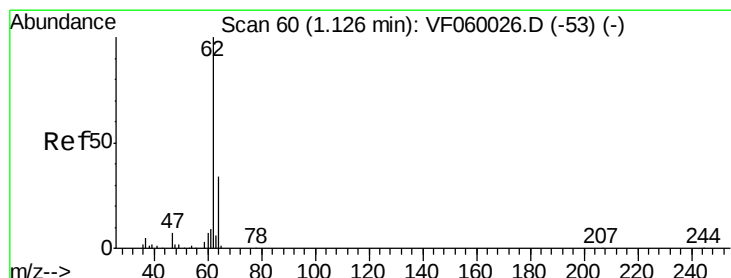
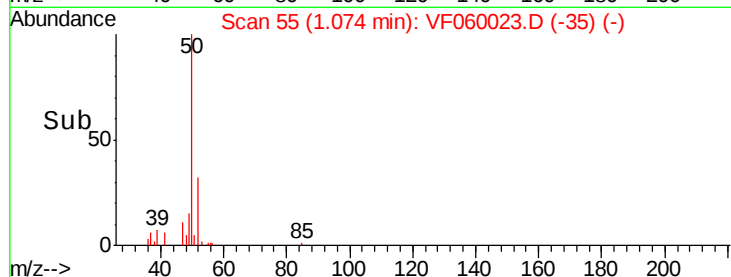
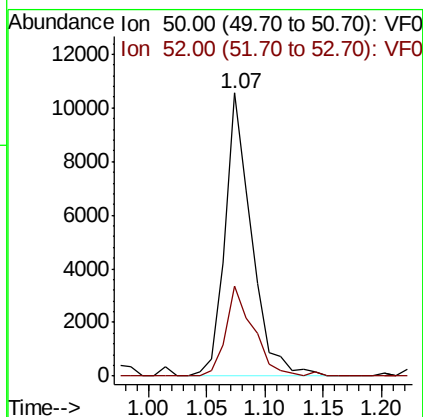
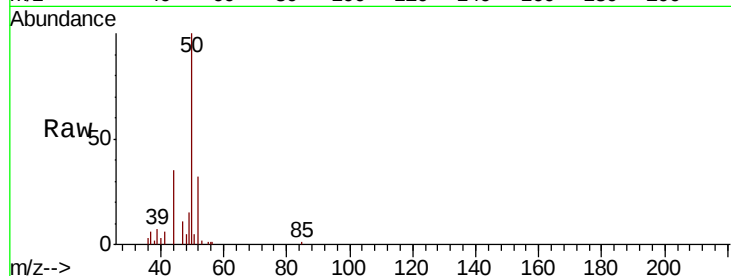
52 32.0 27.6 41.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.32 ug/l

RT: 1.12 min Scan# 60

Delta R.T. -0.00 min

Lab File: VF060023.D

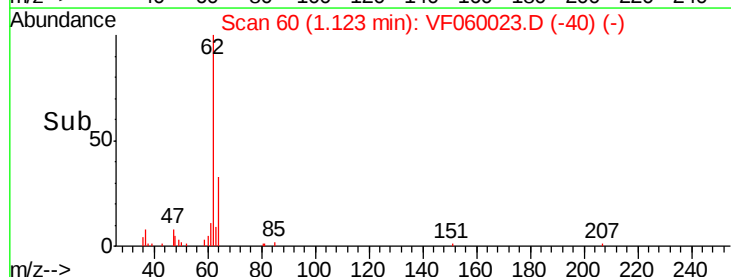
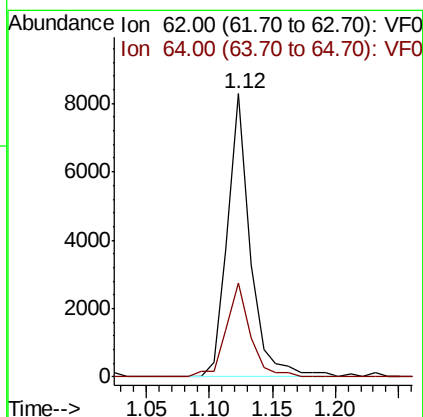
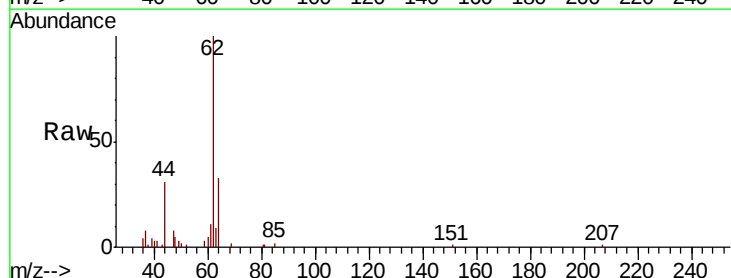
Acq: 21 Aug 2018 16:59

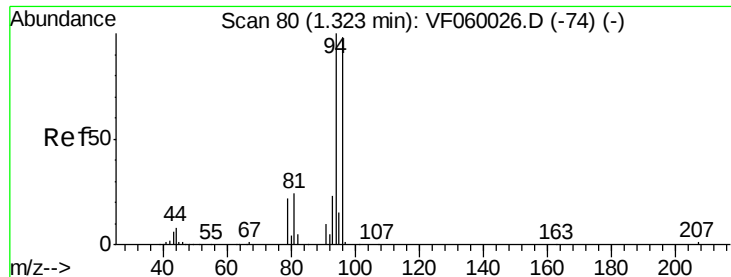
Tgt Ion: 62 Resp: 10360

Ion Ratio Lower Upper

62 100

64 33.2 27.4 41.2





#5

Bromomethane

Concen: 3.73 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 8566

Ion Ratio Lower Upper

94 100

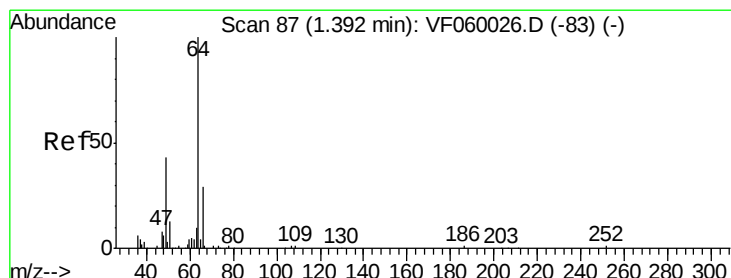
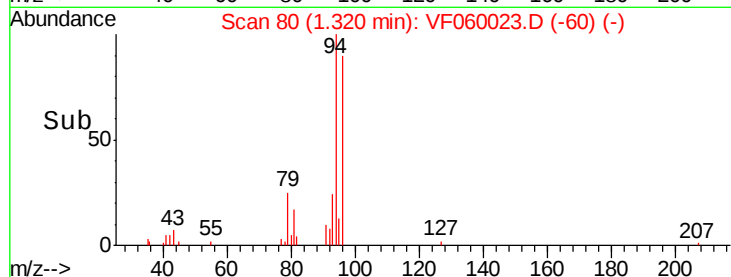
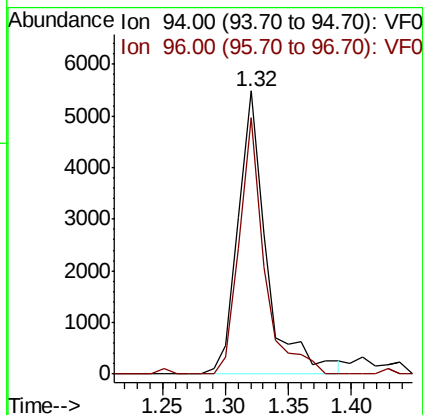
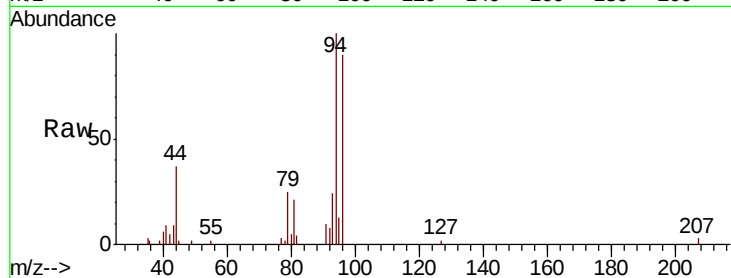
96 90.4 78.6 118.0

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#6

Chloroethane

Concen: 3.49 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF060023.D

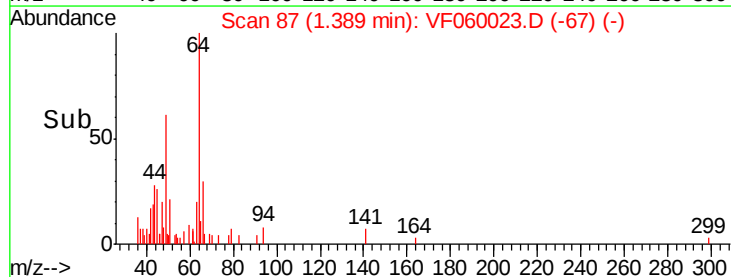
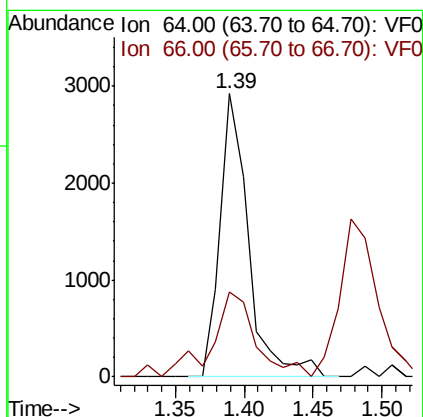
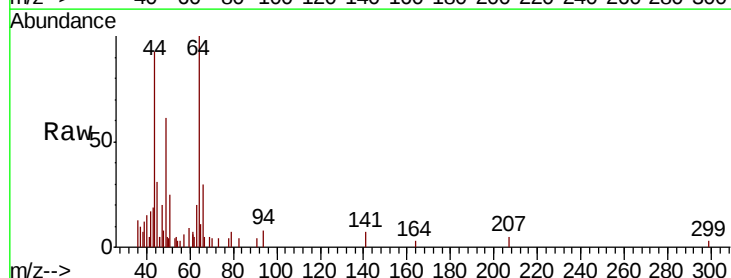
Acq: 21 Aug 2018 16:59

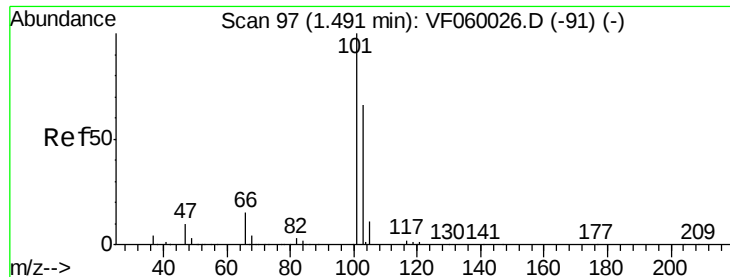
Tgt Ion: 64 Resp: 4180

Ion Ratio Lower Upper

64 100

66 30.2 24.1 36.1





#7

Trichlorofluoromethane

Concen: 3.36 ug/l

RT: 1.49 min Scan# 97

Delta R.T. -0.00 min

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MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 22156

Ion Ratio Lower Upper

101 100

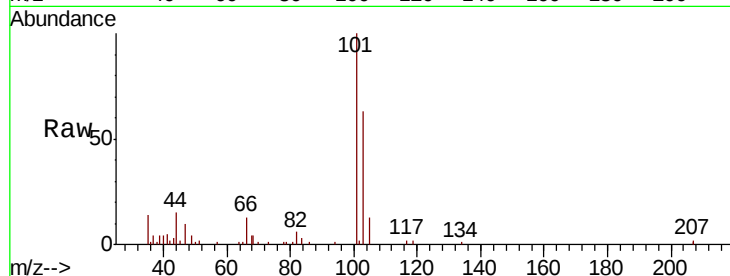
103 63.2 52.5 78.7

Manual Integrations

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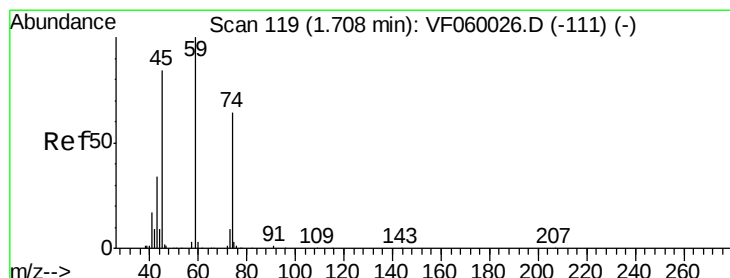
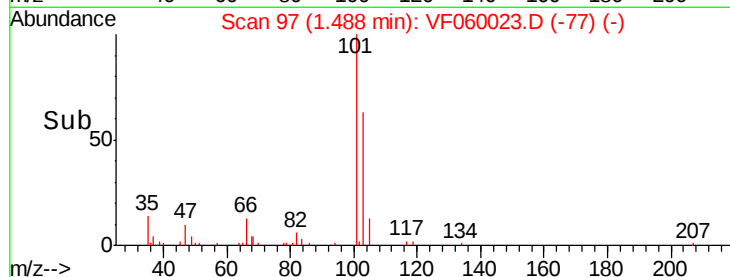
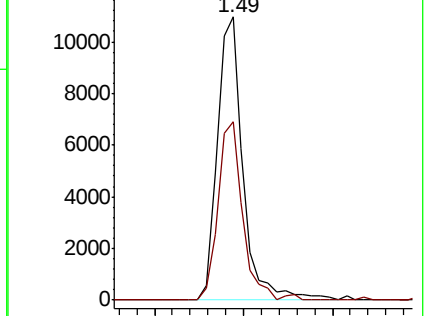
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 3.47 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF060023.D

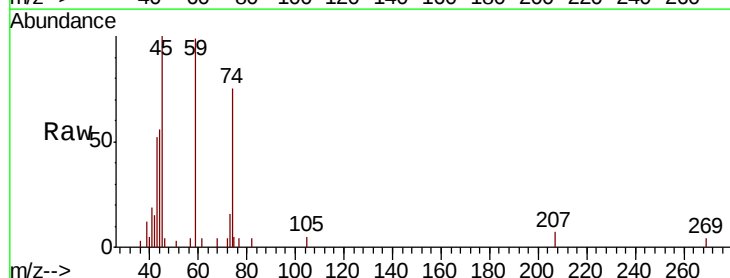
Acq: 21 Aug 2018 16:59

Tgt Ion: 74 Resp: 3455

Ion Ratio Lower Upper

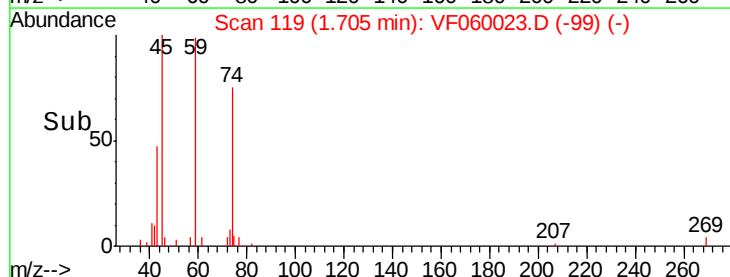
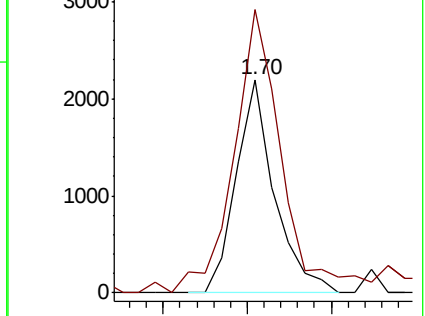
74 100

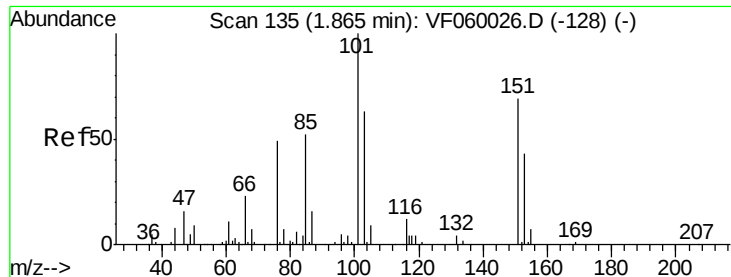
45 132.7 66.0 198.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.35 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

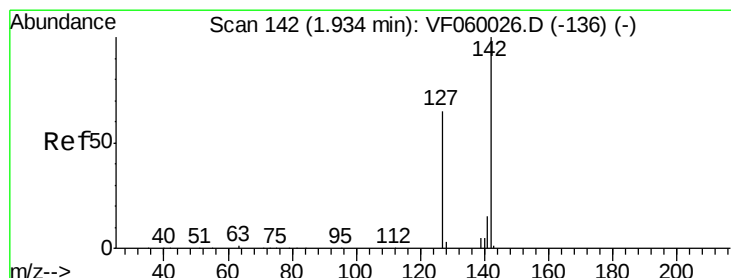
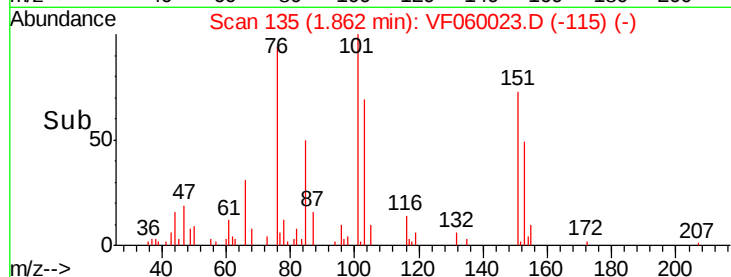
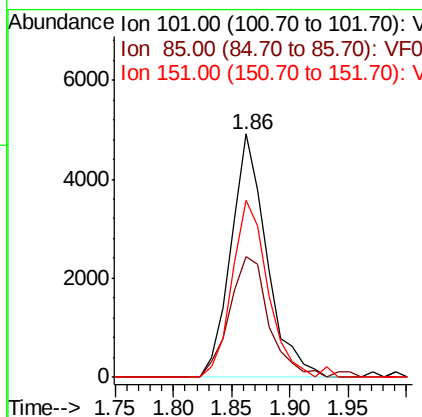
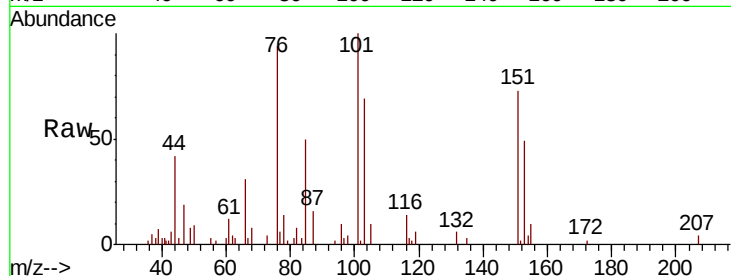
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	10462
Ion Ratio	Lower	Upper	
101	100		
85	49.5	41.5	62.3
151	72.9	55.2	82.8

Manual Integrations
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#10

Methyl Iodide

Concen: 3.17 ug/l

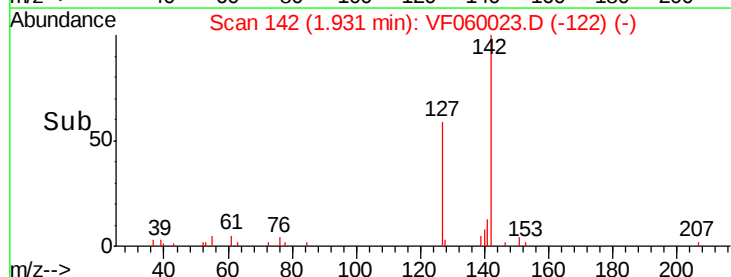
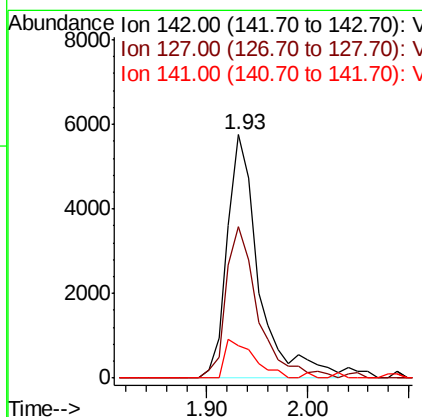
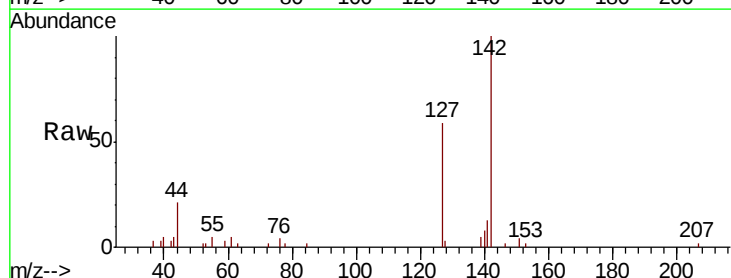
RT: 1.93 min Scan# 142

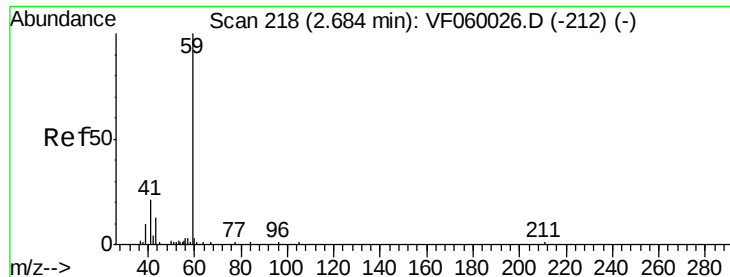
Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Tgt Ion:	142	Resp:	12539
Ion Ratio	Lower	Upper	
142	100		
127	62.2	51.8	77.6
141	13.2	11.9	17.9





#11

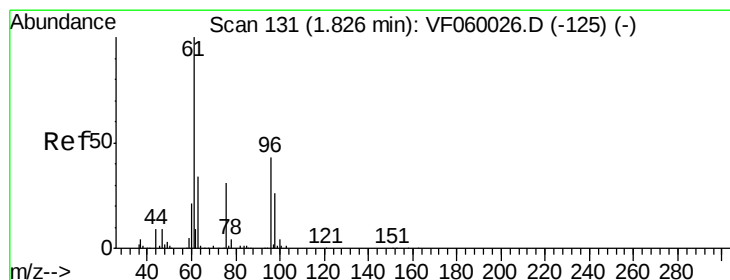
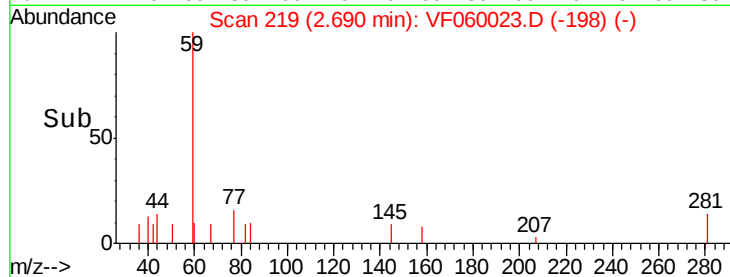
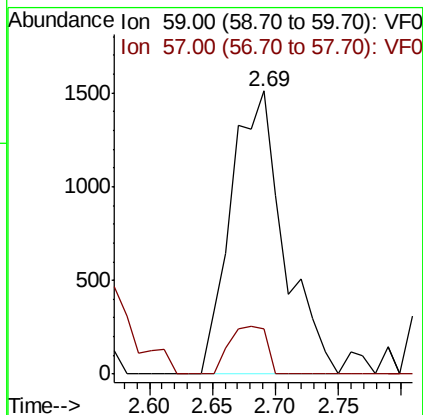
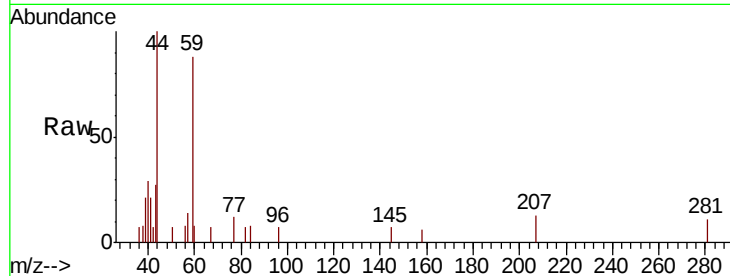
Tert butyl alcohol
 Concen: 17.00 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. 0.01 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.2	5.4	8.2#

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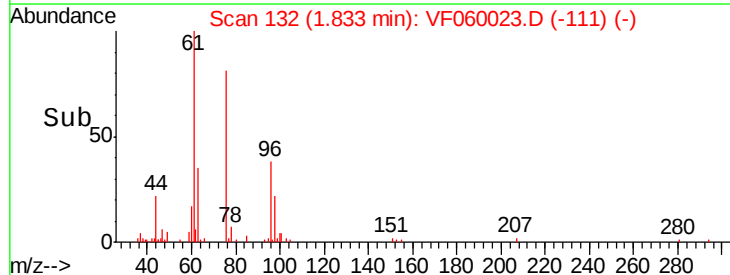
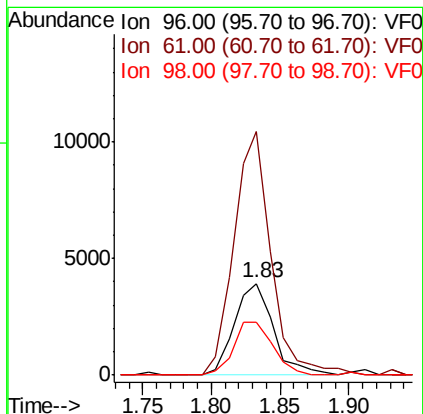
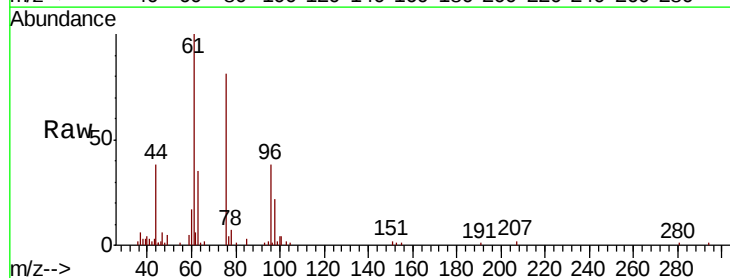
apatel
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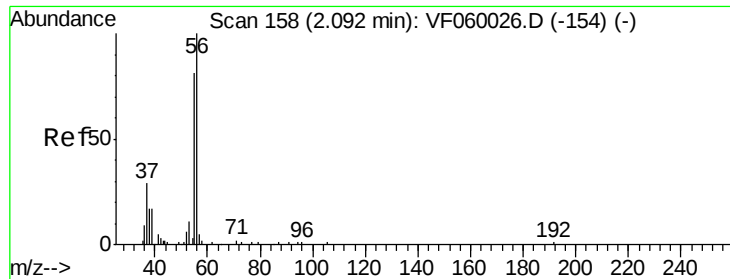


#12

1,1-Dichloroethene
 Concen: 3.57 ug/l
 RT: 1.83 min Scan# 132
 Delta R.T. 0.01 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	256.3	185.0	277.6
98	55.6	47.8	71.8





#13

Acrolein

Concen: 11.09 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 1552

Ion Ratio Lower Upper

56 100

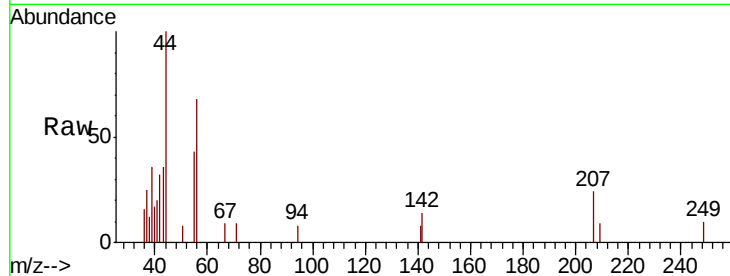
55 63.8 65.6 98.4#

Manual Integrations

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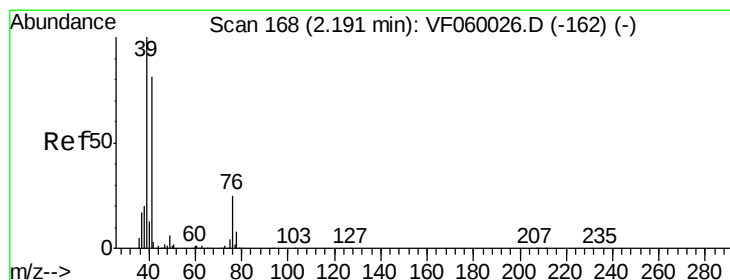
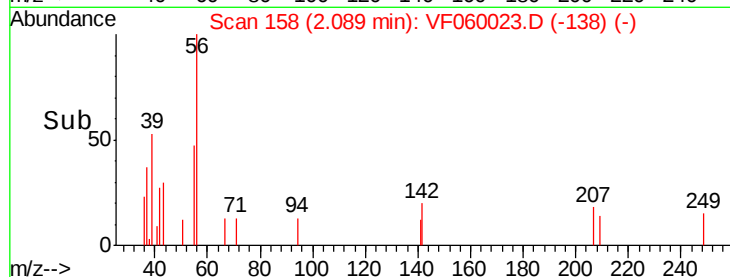
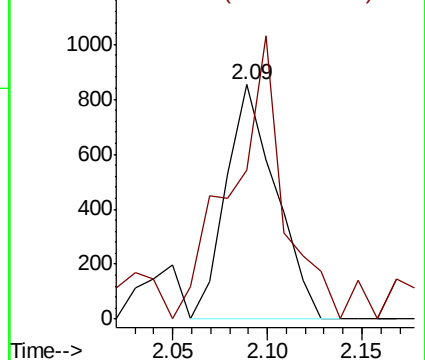
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 3.93 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

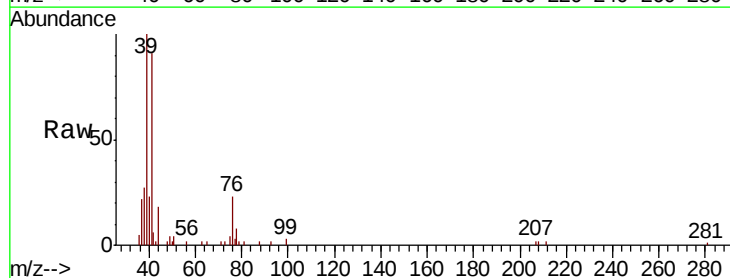
Tgt Ion: 41 Resp: 14483

Ion Ratio Lower Upper

41 100

39 109.3 99.3 148.9

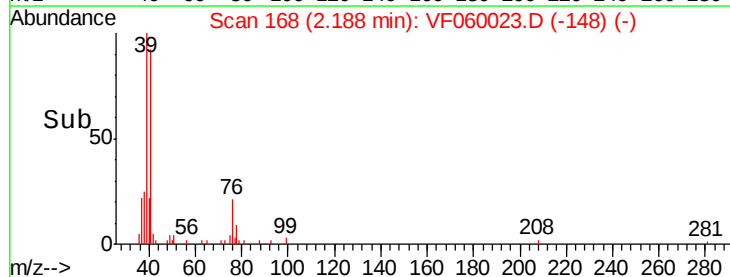
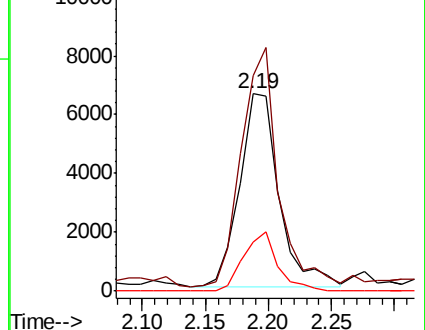
76 24.8 24.3 36.5

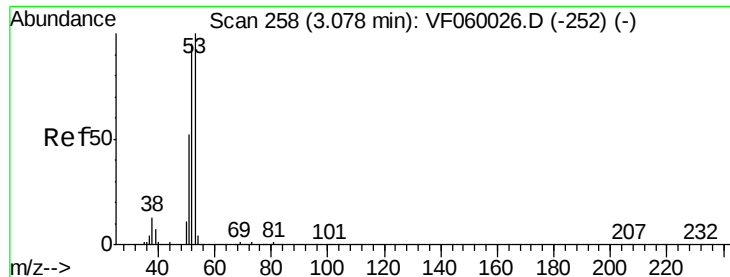


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 22.53 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

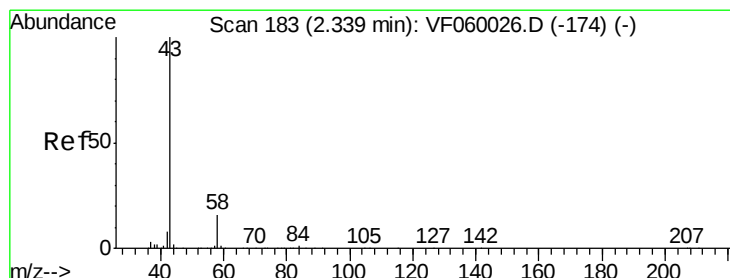
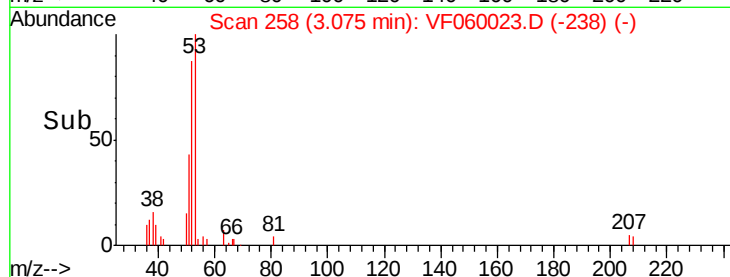
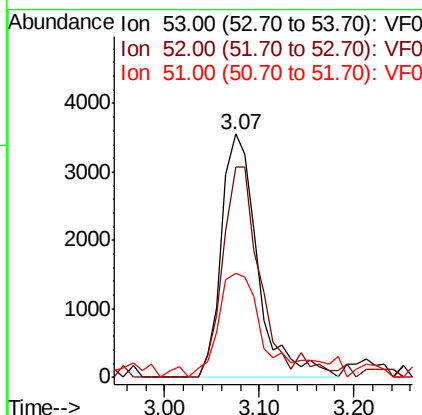
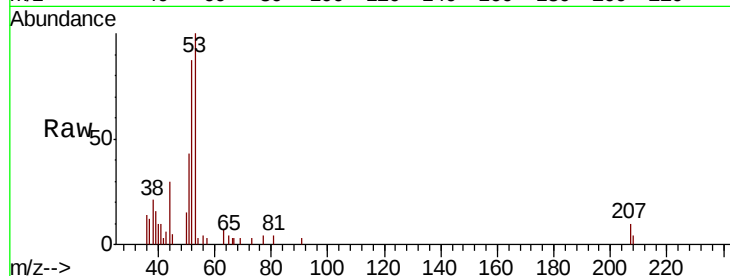
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	9407
Ion	Ratio	Lower	Upper
53	100		
52	86.5	75.8	113.8
51	43.0	42.1	63.1

Manual Integrations
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#16

Acetone

Concen: 15.42 ug/l

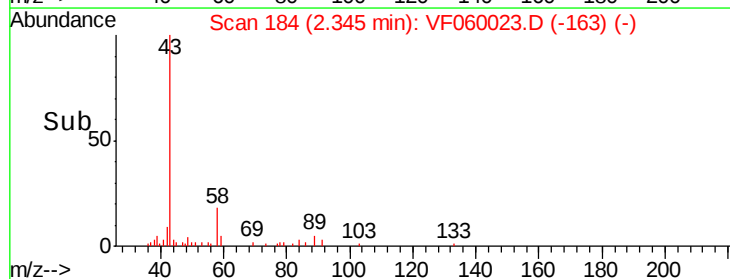
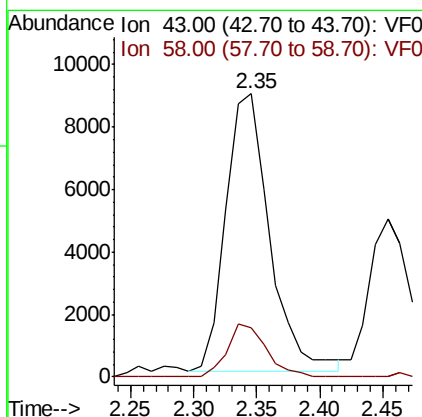
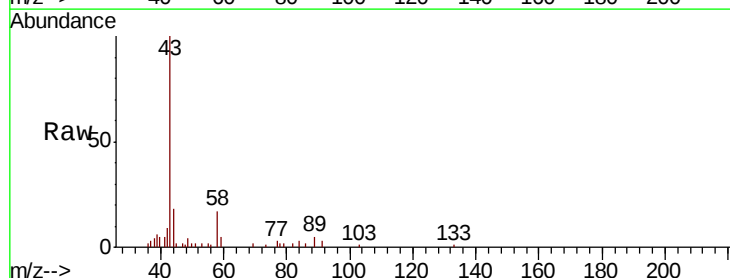
RT: 2.35 min Scan# 184

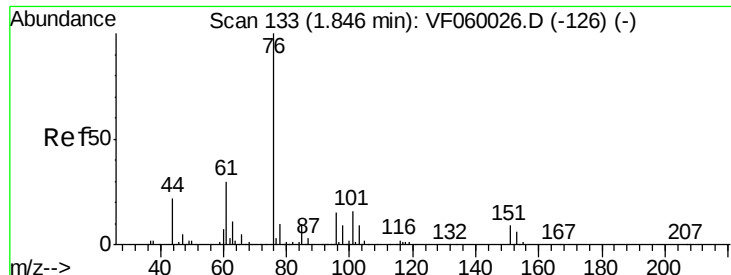
Delta R.T. 0.01 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Tgt Ion:	43	Resp:	21350
Ion	Ratio	Lower	Upper
43	100		
58	17.4	12.6	19.0





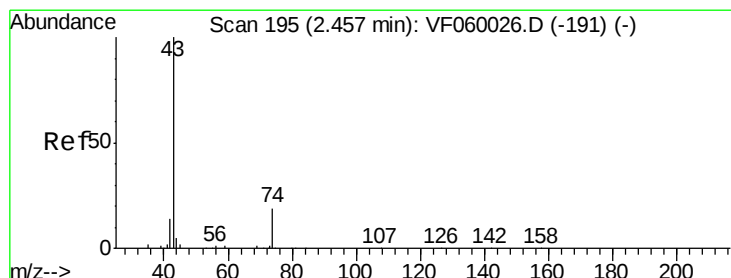
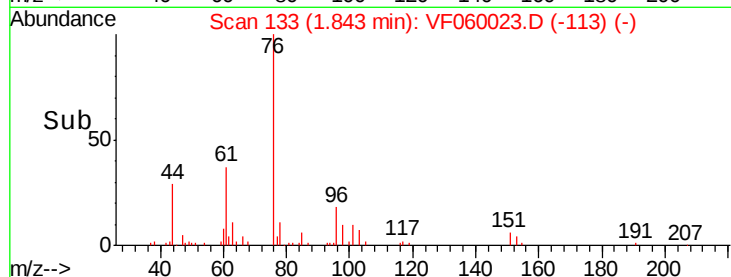
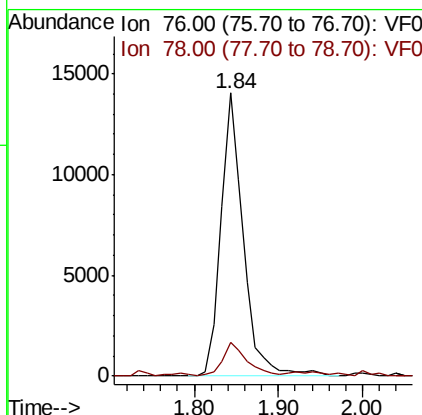
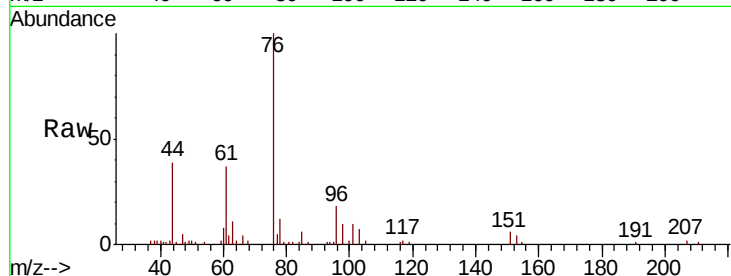
#17
Carbon Disulfide
Concen: 3.78 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.8	8.4	12.6

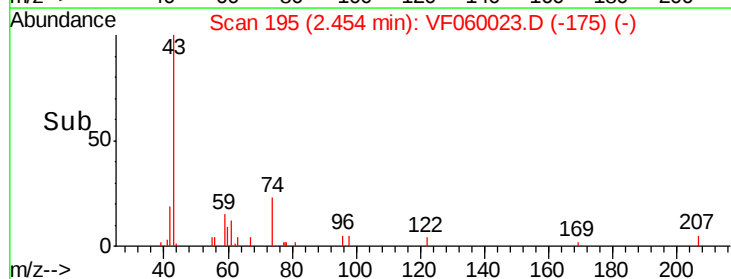
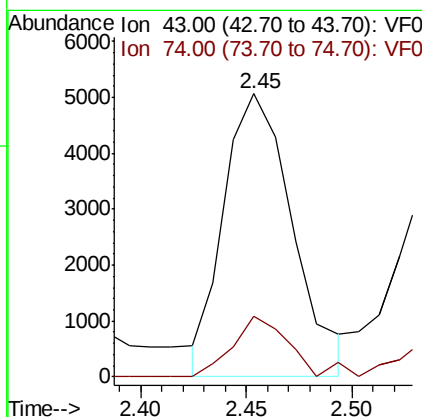
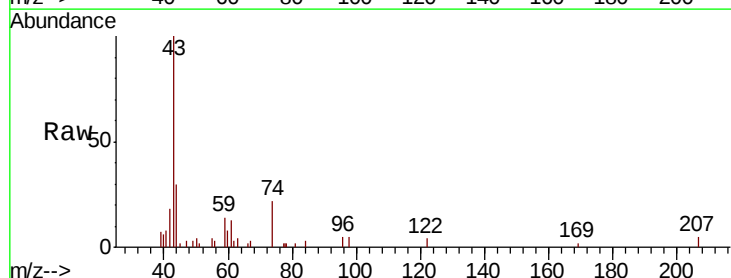
Manual Integrations
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#18
Methyl Acetate
Concen: 4.34 ug/l m
RT: 2.45 min Scan# 195
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.5	13.8	20.6#





#19

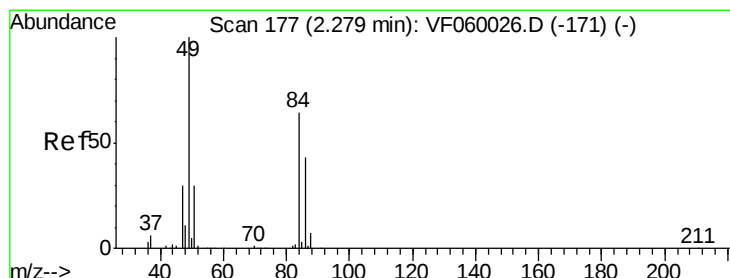
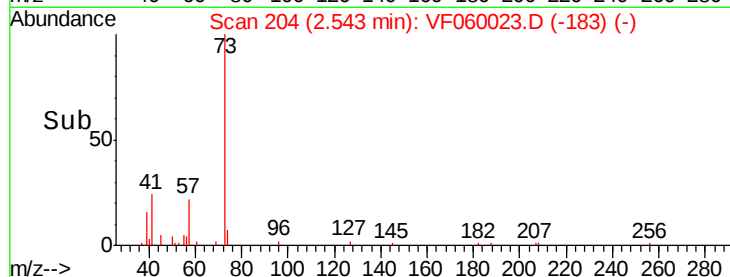
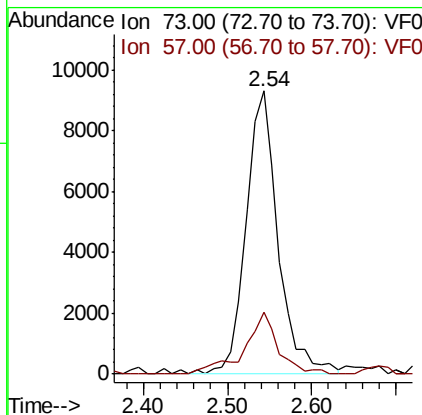
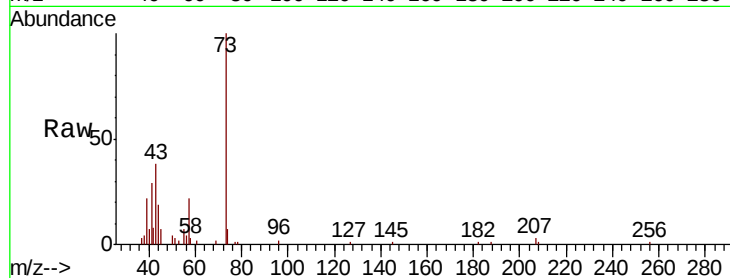
Methyl tert-butyl Ether
Concen: 3.50 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.8	13.7	20.5#

Manual Integrations
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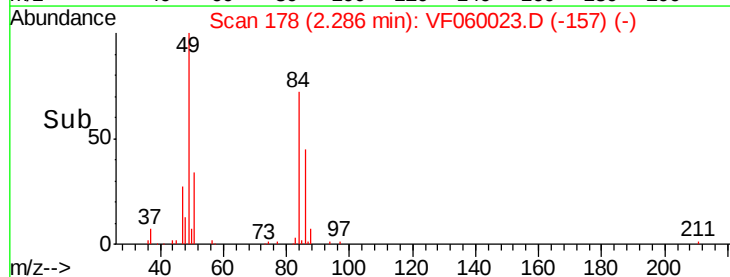
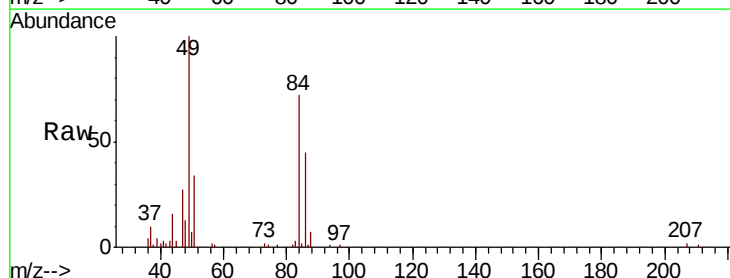
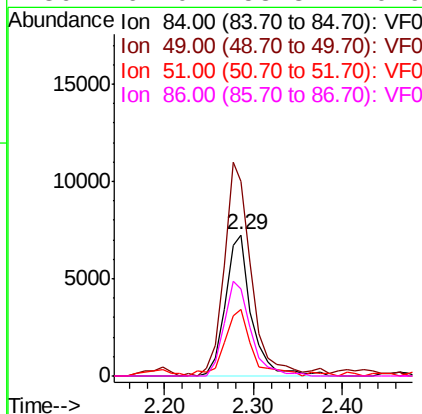
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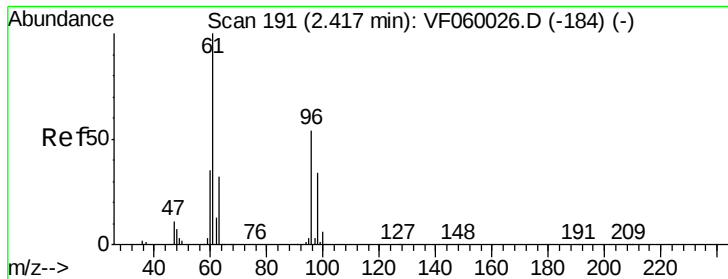


#20

Methylene Chloride
Concen: 4.87 ug/l
RT: 2.29 min Scan# 178
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	138.2	125.4	188.0
51	46.8	38.3	57.5
86	62.0	53.3	79.9





#21

trans-1,2-Dichloroethene

Concen: 4.10 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

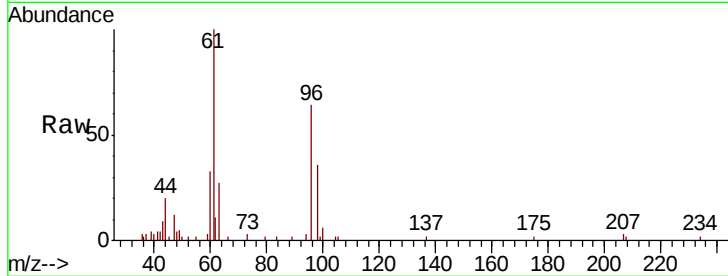
ClientSampleId :

VSTDIC005

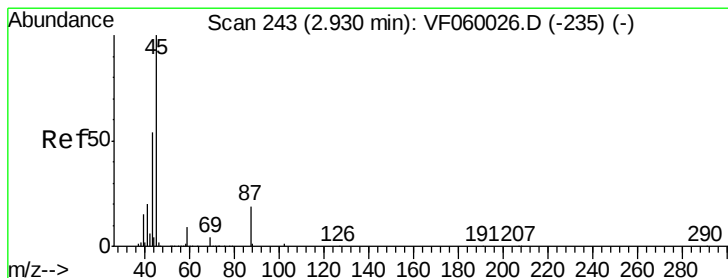
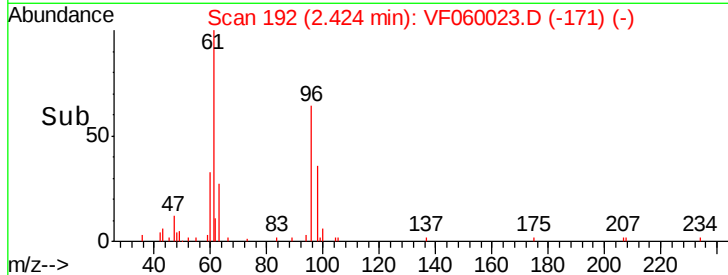
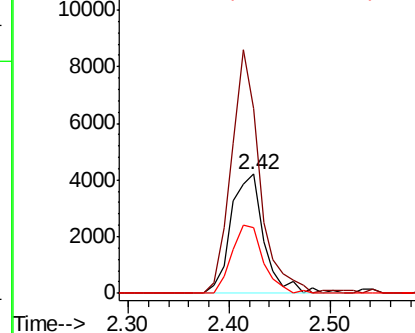
Tot Ion:	96	Resp:	9584
Ion	Ratio	Lower	Upper
96	100		
61	155.8	147.4	221.0
98	59.3	49.8	74.6

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Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 3.83 ug/l

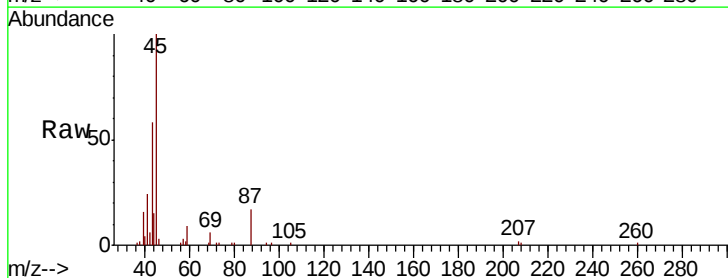
RT: 2.93 min Scan# 243

Delta R.T. -0.00 min

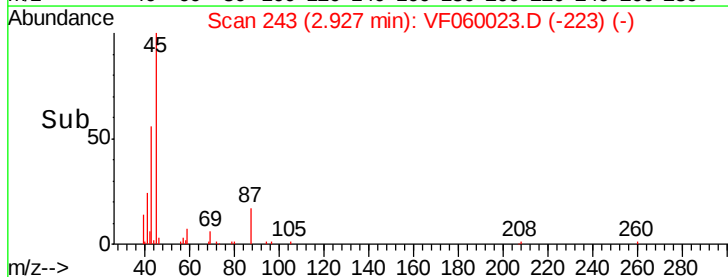
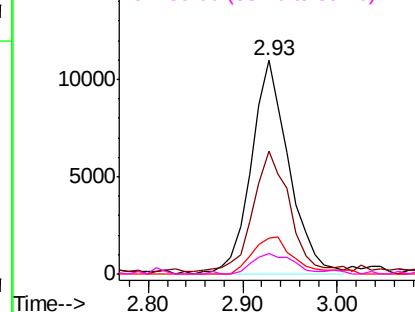
Lab File: VF060023.D

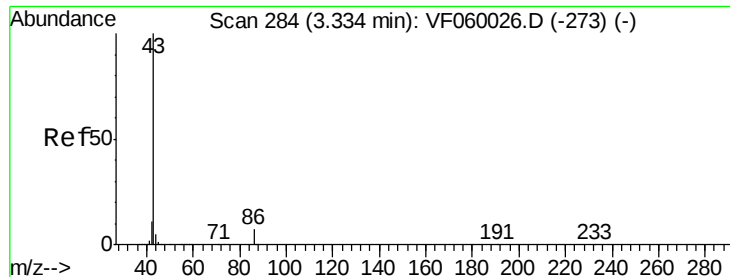
Acq: 21 Aug 2018 16:59

Tgt Ion:	45	Resp:	30275
Ion	Ratio	Lower	Upper
45	100		
43	57.5	43.4	65.2
87	17.1	15.4	23.2
59	9.5	7.5	11.3



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 20.82 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 68841

Ion Ratio Lower Upper

43 100

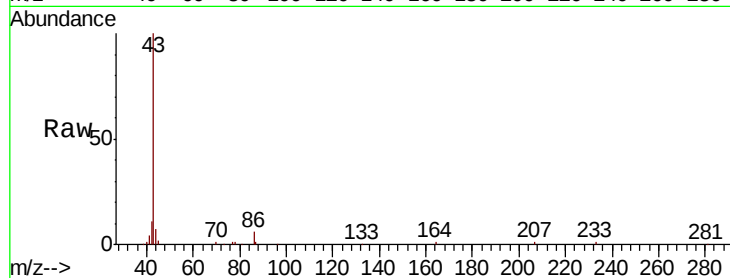
86 5.7 5.6 8.4

Manual Integrations

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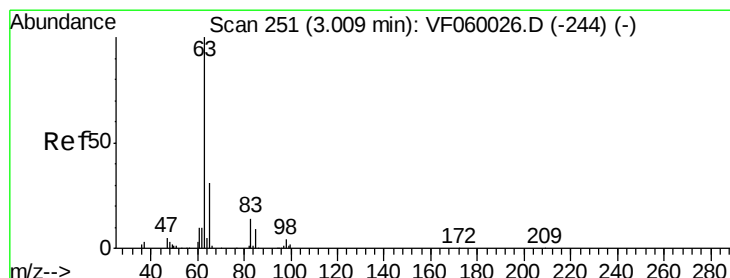
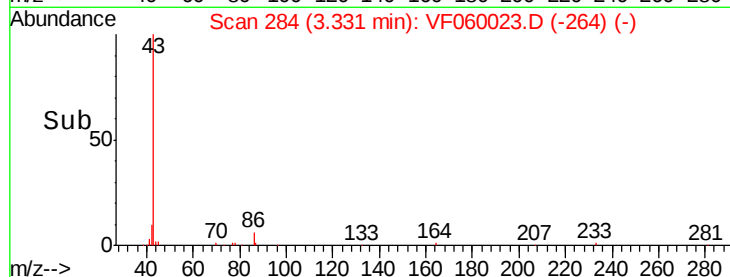
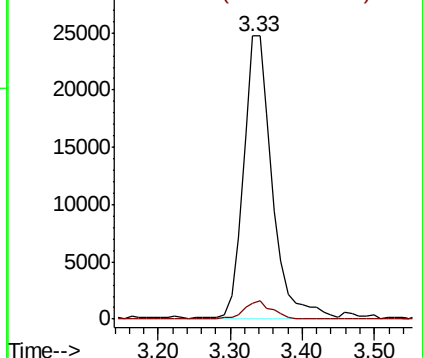
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 3.94 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

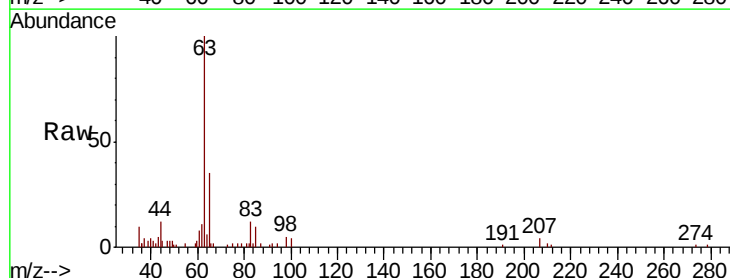
Tgt Ion: 63 Resp: 20146

Ion Ratio Lower Upper

63 100

98 4.5 2.1 6.5

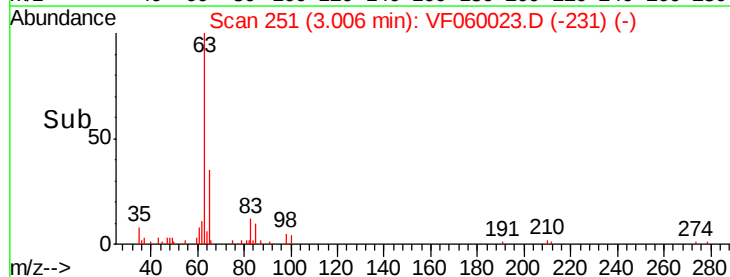
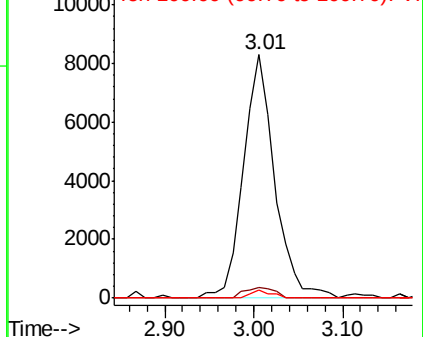
100 3.5 1.1 3.3#

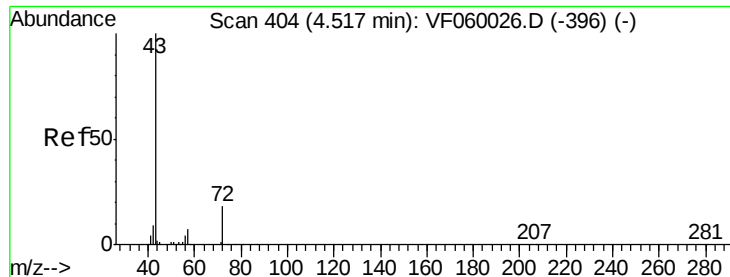


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 26.01 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 29737

Ion Ratio Lower Upper

43 100

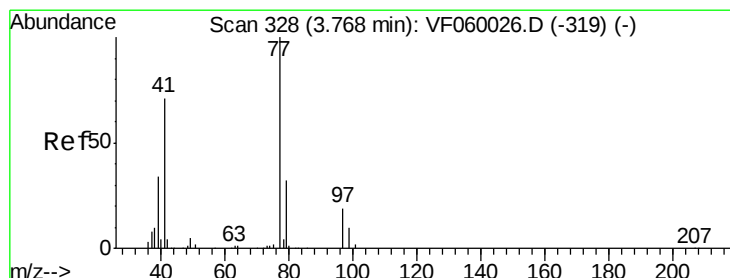
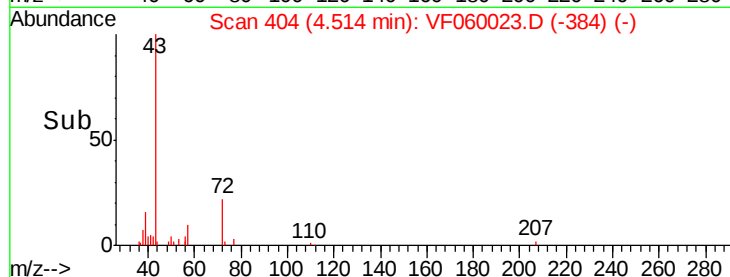
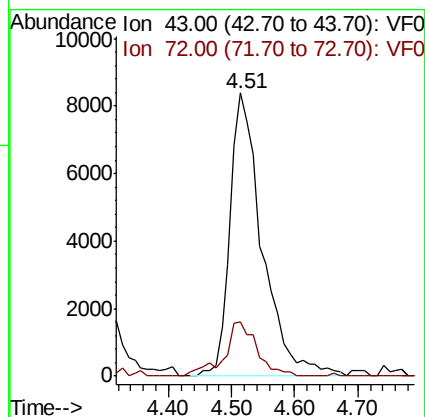
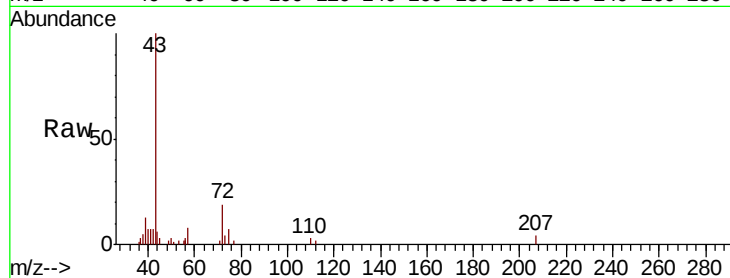
72 19.3 15.0 22.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.19 ug/l

RT: 3.76 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF060023.D

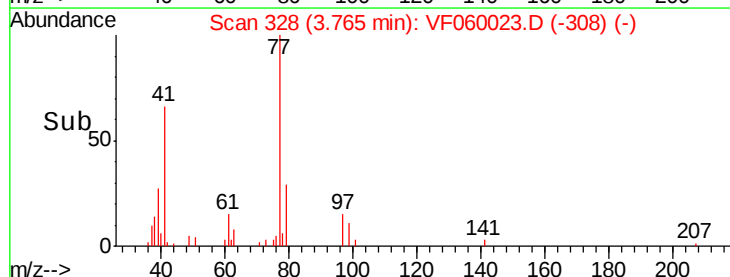
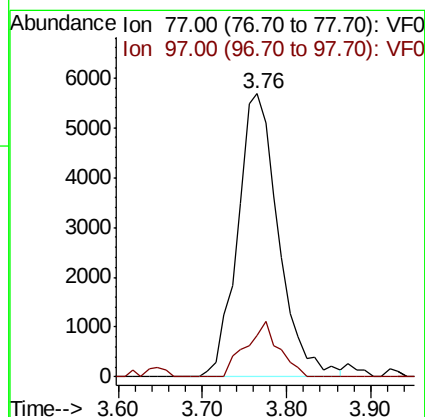
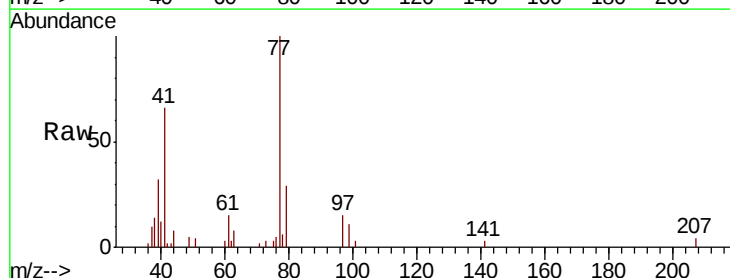
Acq: 21 Aug 2018 16:59

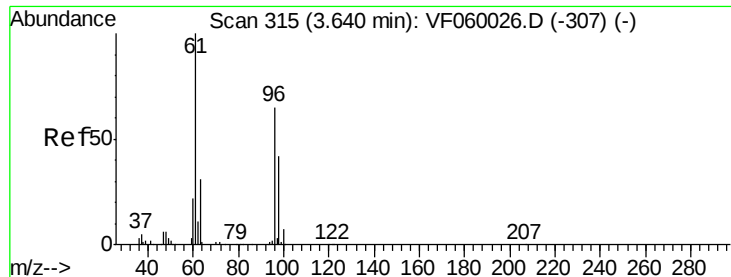
Tgt Ion: 77 Resp: 19302

Ion Ratio Lower Upper

77 100

97 14.6 9.7 29.1





#27

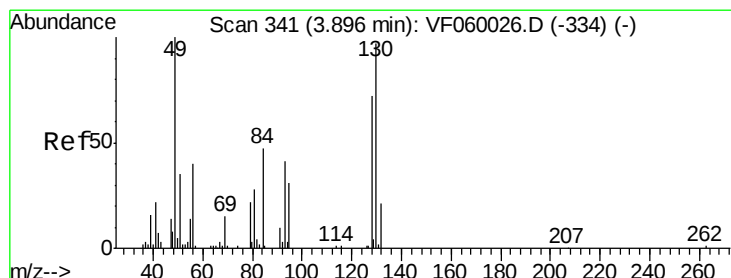
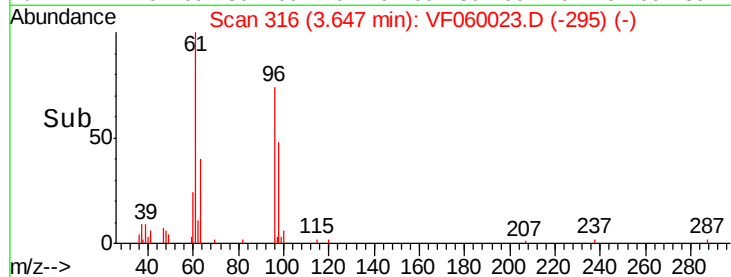
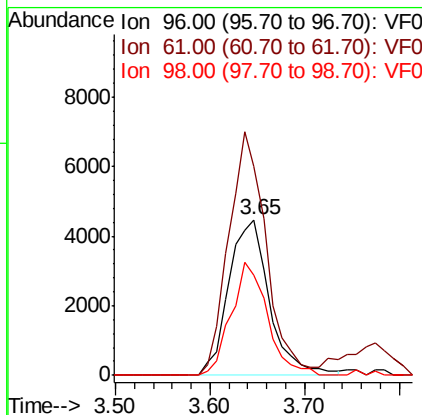
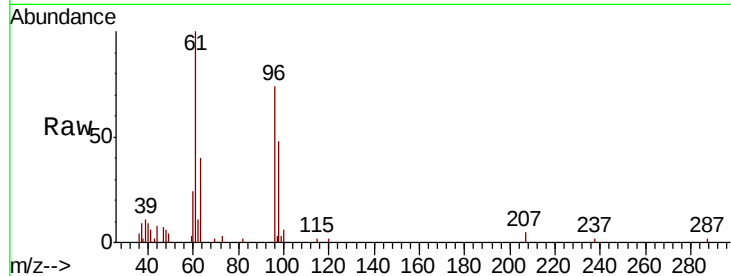
cis-1,2-Dichloroethene
Concen: 5.86 ug/l
RT: 3.65 min Scan# 316
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100	13305		
61	134.7	0.0	307.6	
98	64.4	0.0	128.4	

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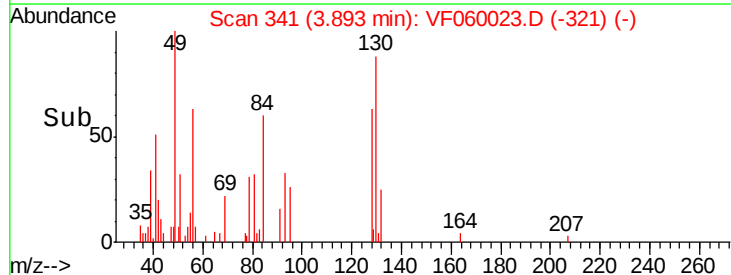
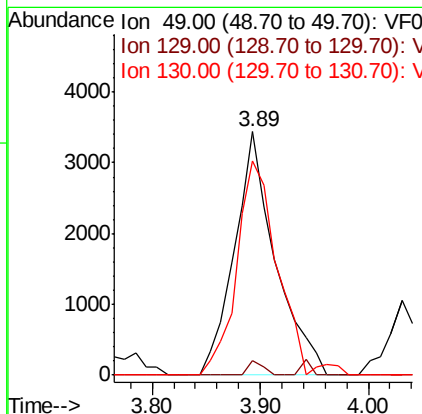
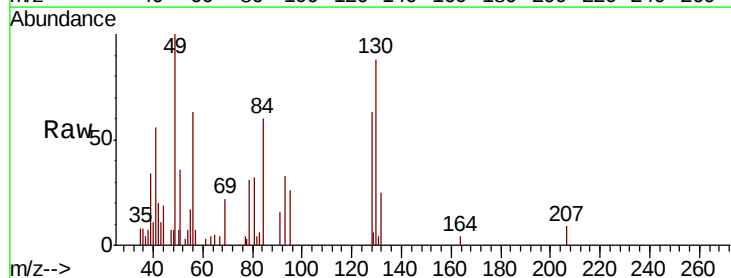
apatel
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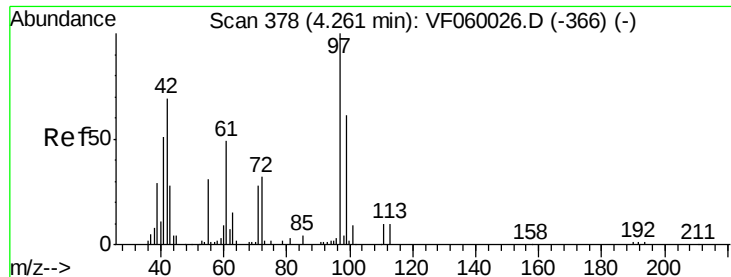


#28

Bromochloromethane
Concen: 5.74 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	9050		
129	5.7	0.0	7.4	
130	88.1	78.0	117.0	





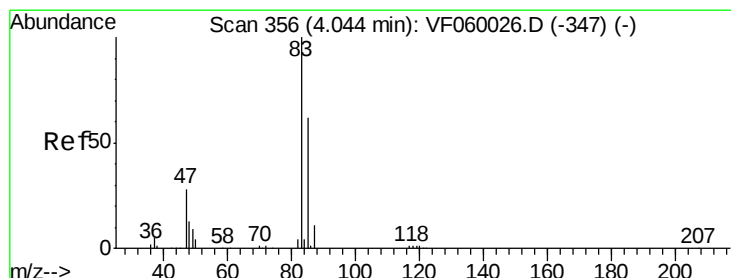
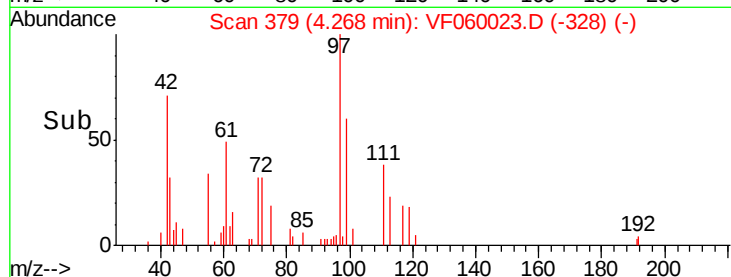
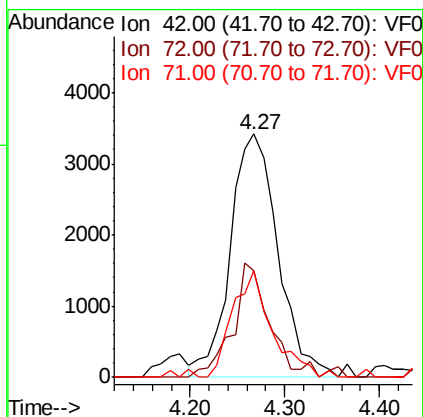
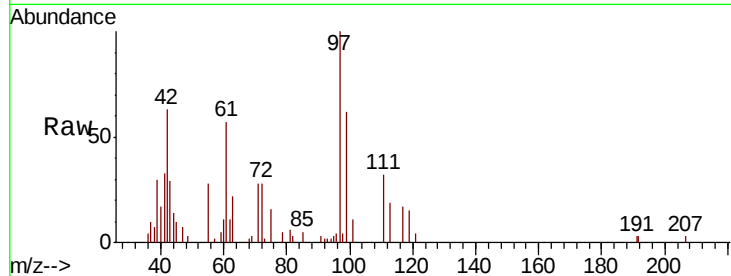
#29
Tetrahydrofuran
Concen: 29.13 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.2	31.4	47.2
71	36.4	29.7	44.5

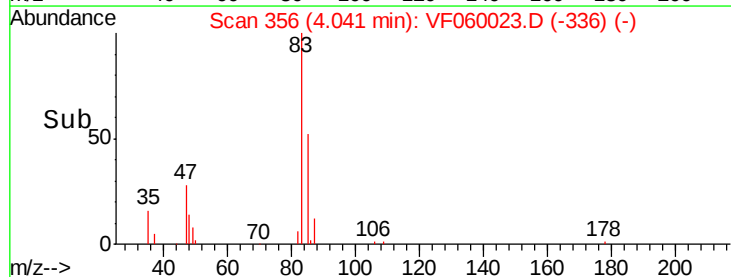
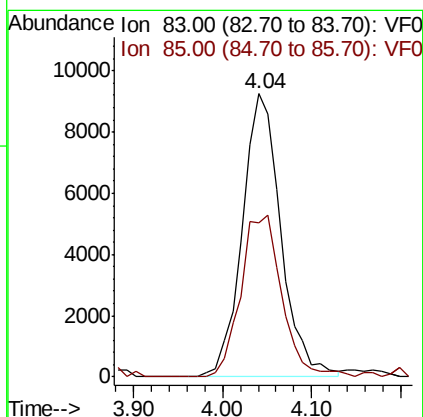
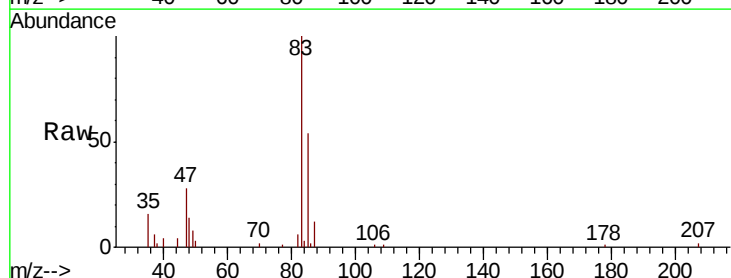
Manual Integrations
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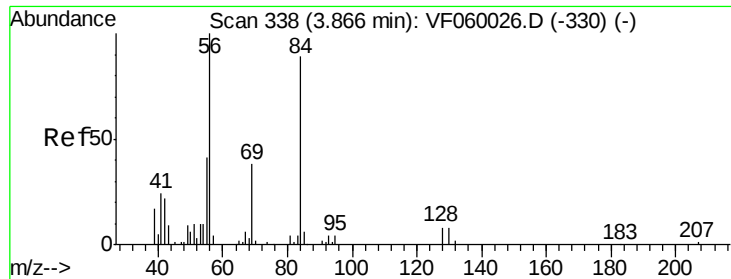
apatel
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#30
Chloroform
Concen: 4.52 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.2	49.5	74.3





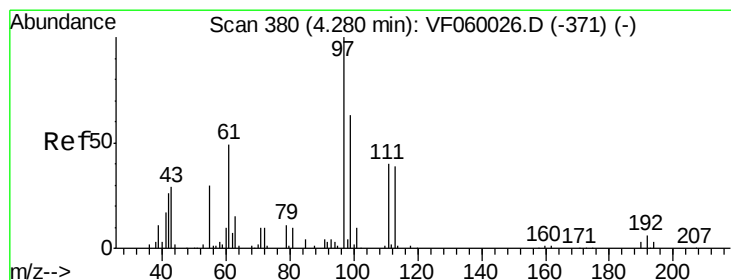
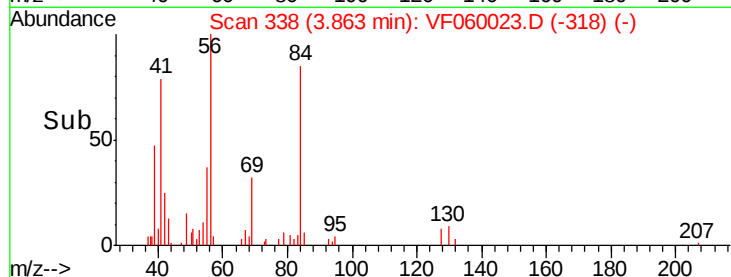
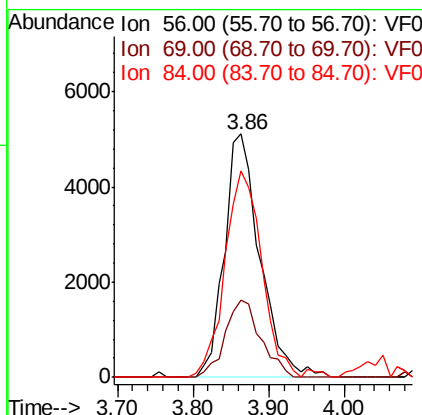
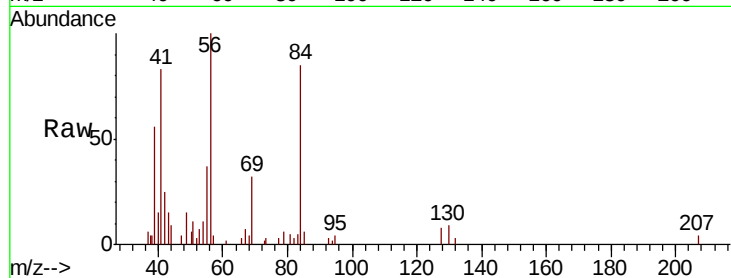
#31
Cyclohexane
Concen: 6.53 ug/l
RT: 3.86 min Scan# 338
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.8	30.4	45.6
84	84.9	71.4	107.2

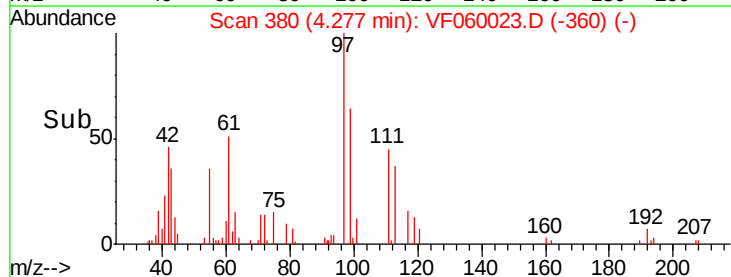
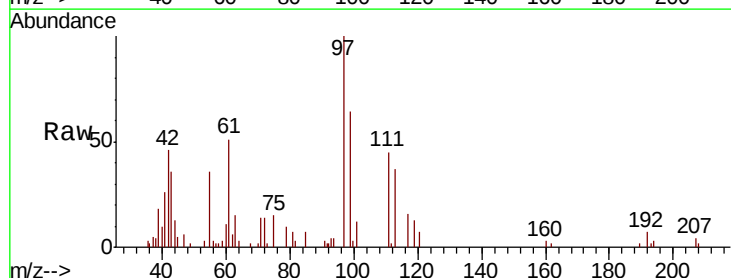
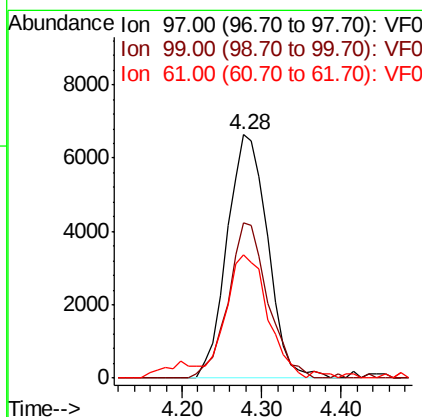
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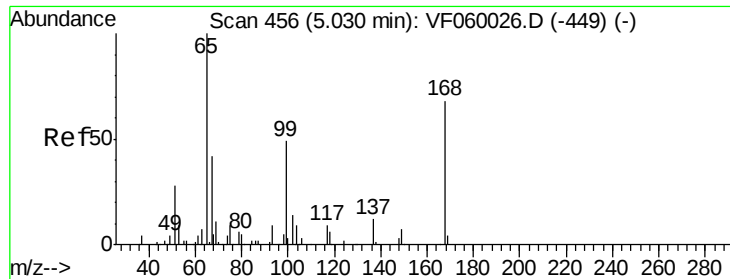
apatel
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#32
1,1,1-Trichloroethane
Concen: 4.01 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.3	75.5
61	50.6	40.3	60.5





#33

1,2-Dichloroethane-d4

Concen: 3.92 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 17471

Ion Ratio Lower Upper

65 100

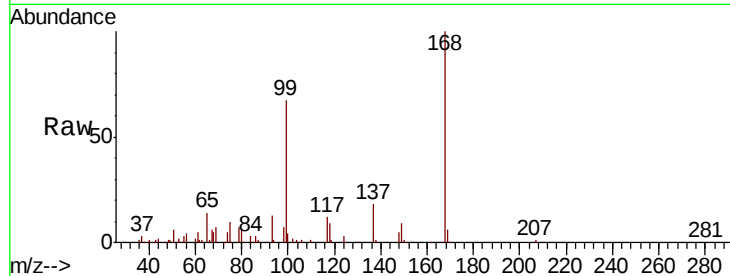
67 45.4 0.0 92.0

Manual Integrations

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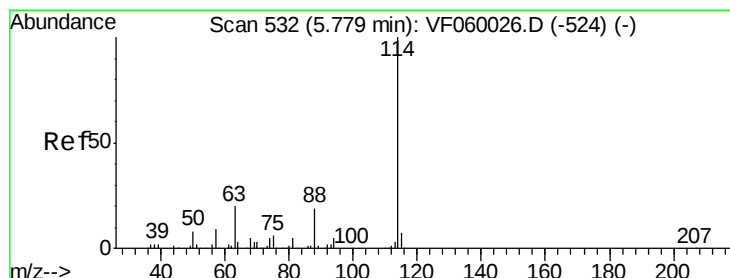
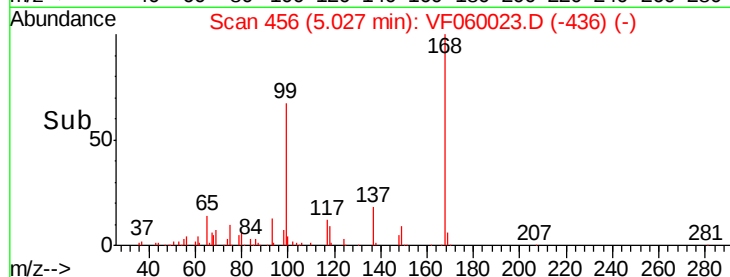
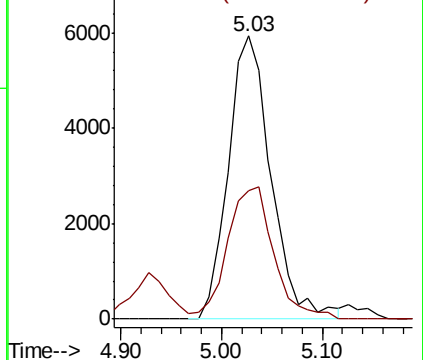
apatel

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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

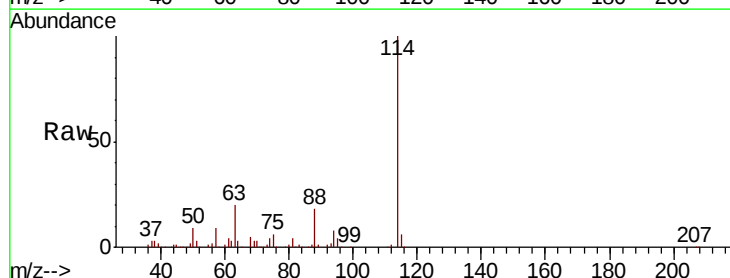
Tgt Ion: 114 Resp: 349928

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.4

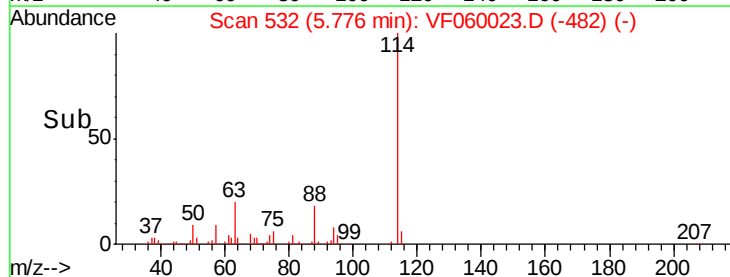
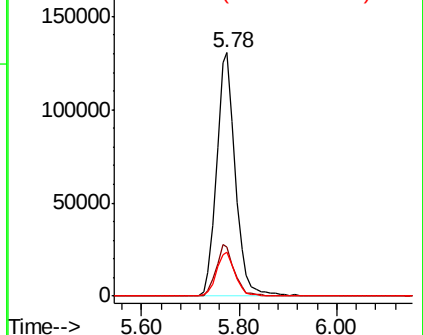
88 17.9 0.0 38.6

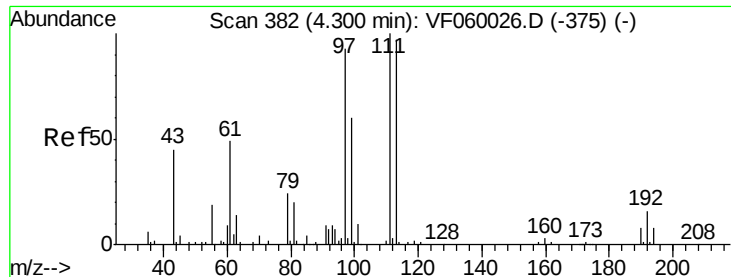


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 4.24 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

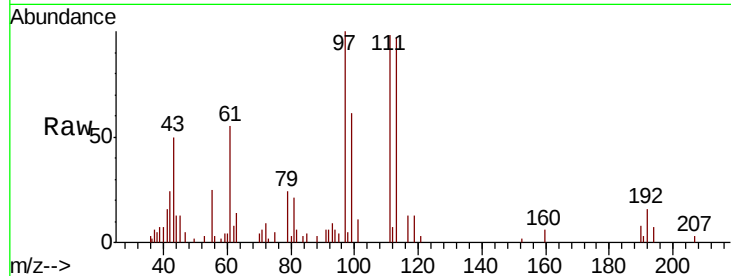
ClientSampleId :

VSTDIC005

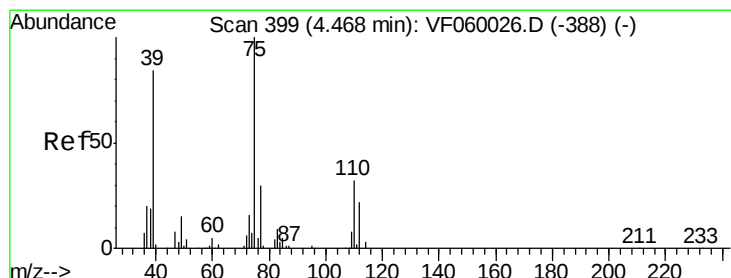
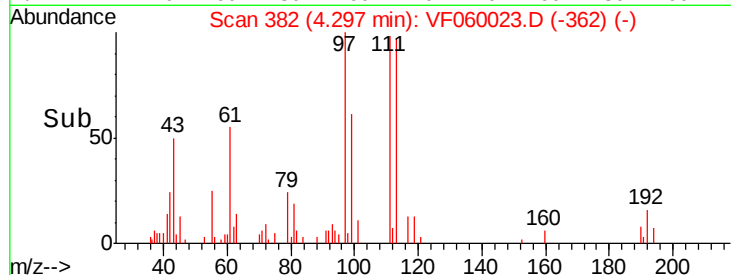
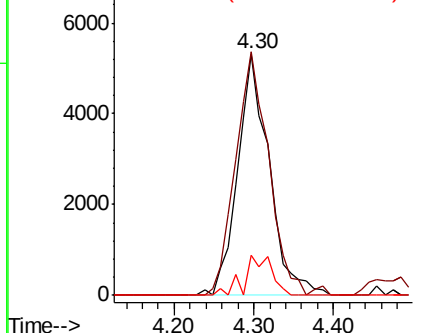
Tot Ion:	113	Resp:	14589
Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.7	124.1
192	16.5	13.0	19.4

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Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 4.69 ug/l

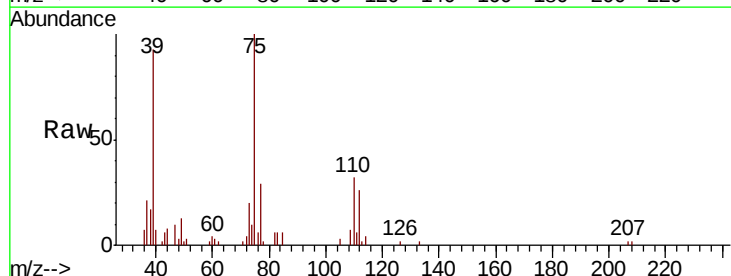
RT: 4.47 min Scan# 400

Delta R.T. 0.01 min

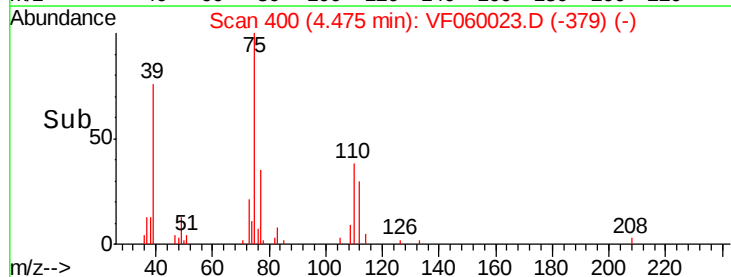
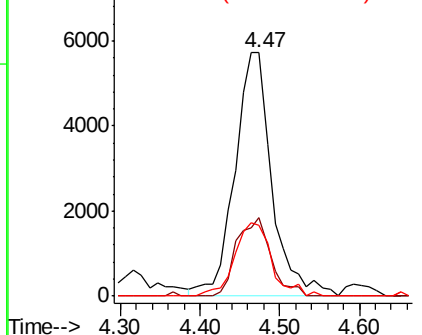
Lab File: VF060023.D

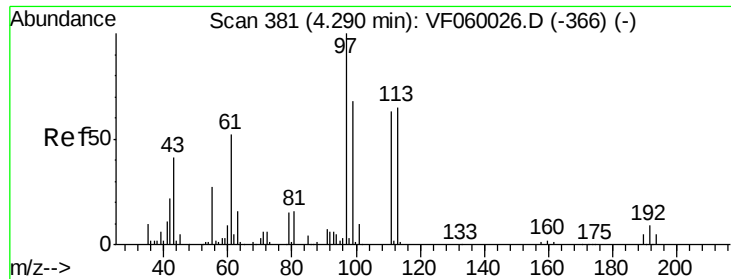
Acq: 21 Aug 2018 16:59

Tgt Ion:	75	Resp:	18409
Ion	Ratio	Lower	Upper
75	100		
110	32.1	16.0	47.9
77	29.2	24.1	36.1



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





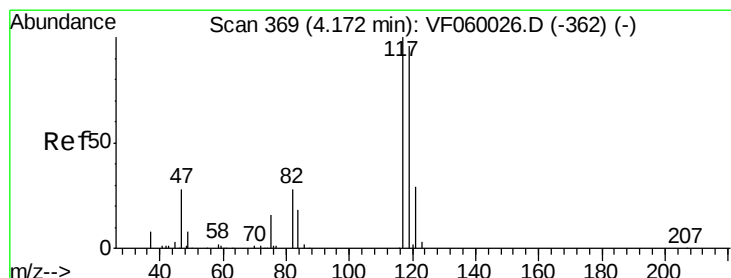
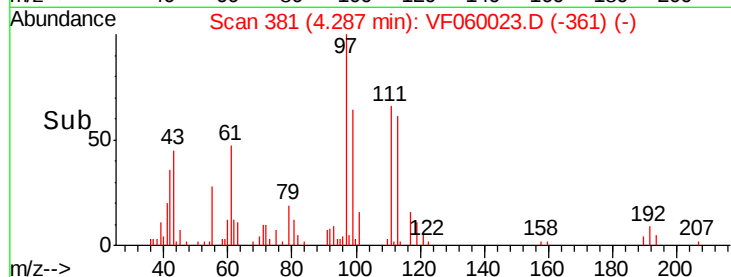
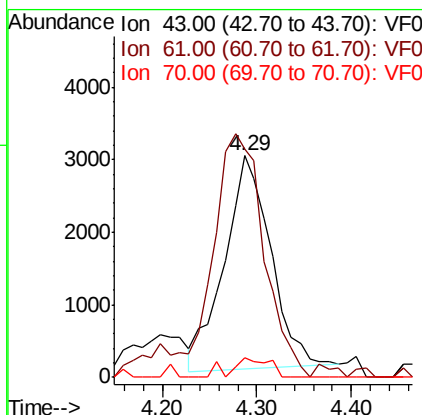
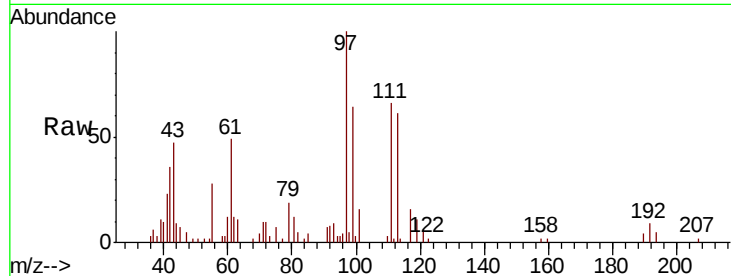
#37
Ethyl Acetate
Concen: 4.68 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	43	61	70	Ratio	Lower	Upper
10050	100	102.8	9.0			
		101.5	6.4			
		152.3	9.6			

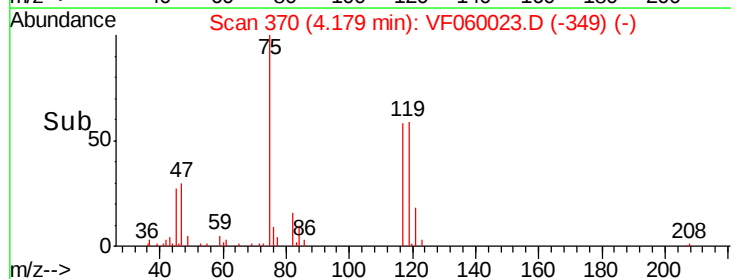
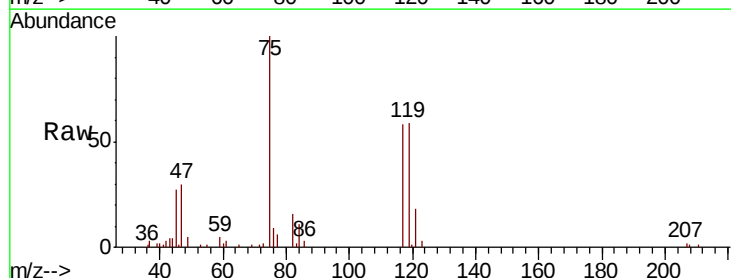
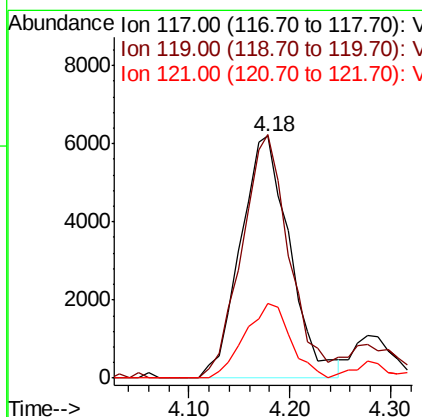
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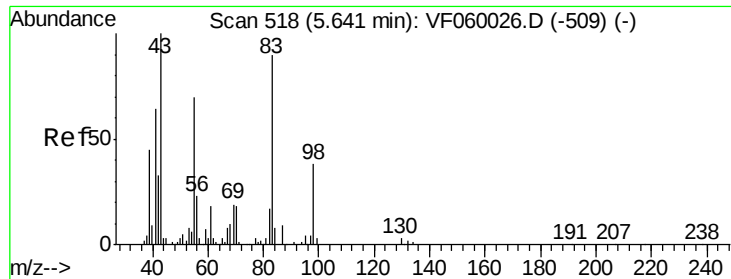
apatel
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#38
Carbon Tetrachloride
Concen: 3.88 ug/l
RT: 4.18 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	117	119	121	Ratio	Lower	Upper
21022	100	100.5	30.9			
		76.5	23.0			
		114.7	34.6			





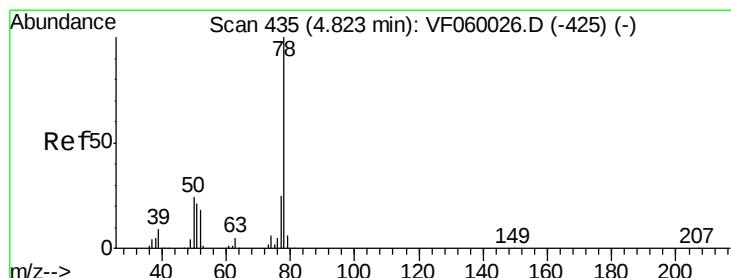
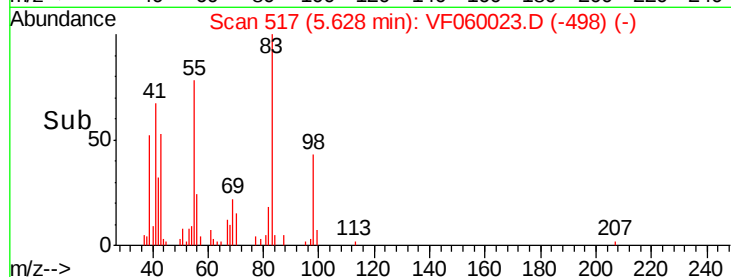
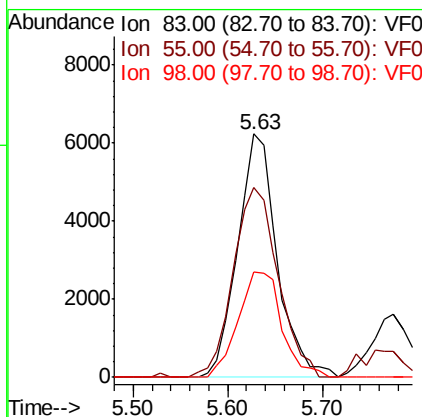
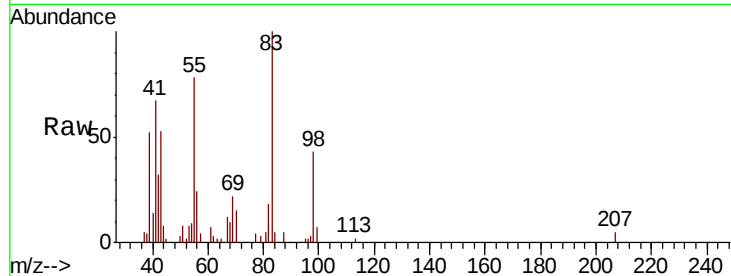
#39
Methvlcvclohexane
Concen: 6.02 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	18044
Ion Ratio	Lower	Upper	
83	100		
55	77.8	62.7	94.1
98	43.1	33.8	50.8

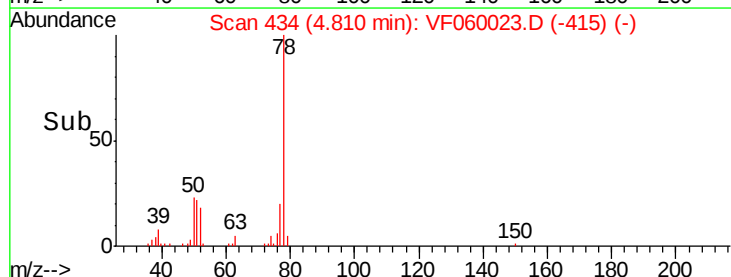
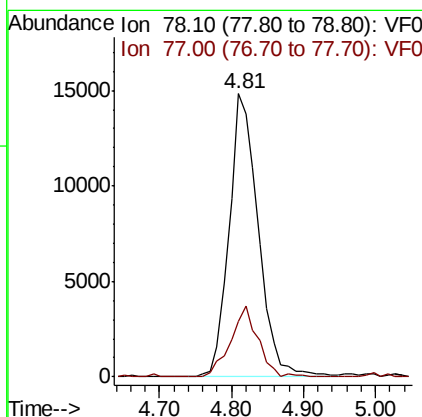
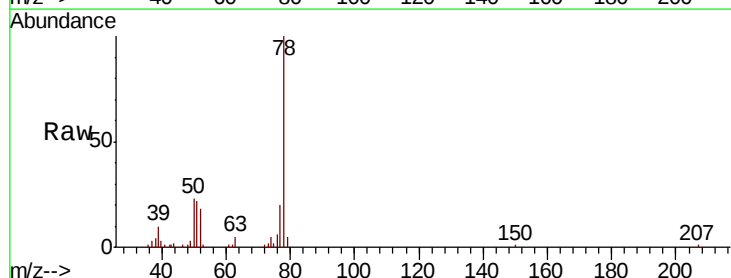
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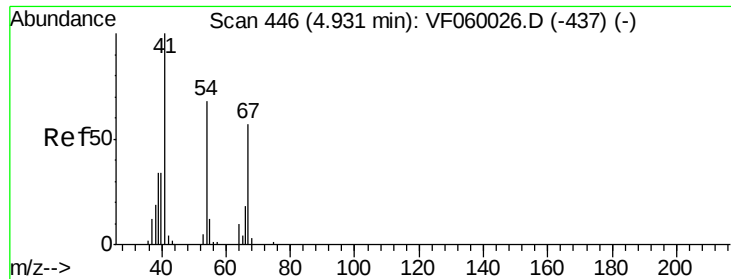
apatel
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#40
Benzene
Concen: 6.20 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	78	Resp	41771
Ion Ratio	Lower	Upper	
78	100		
77	19.8	19.8	29.6





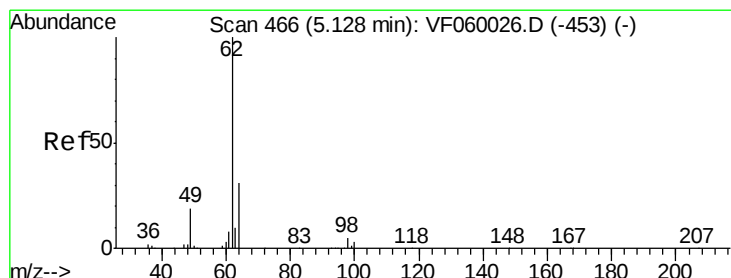
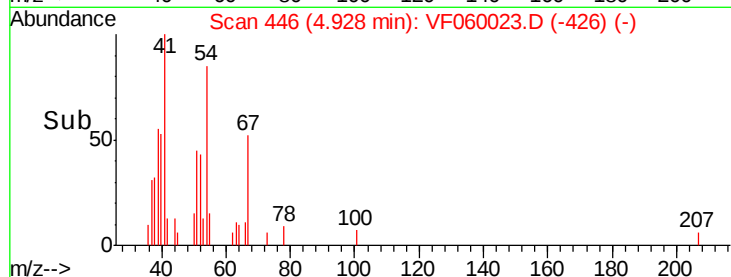
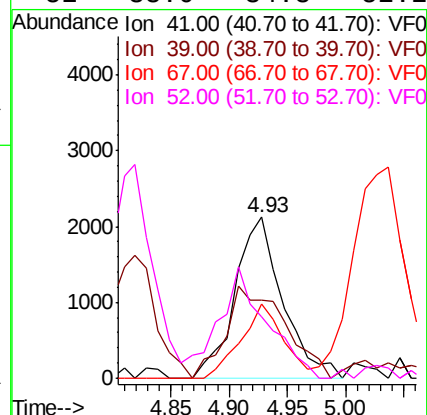
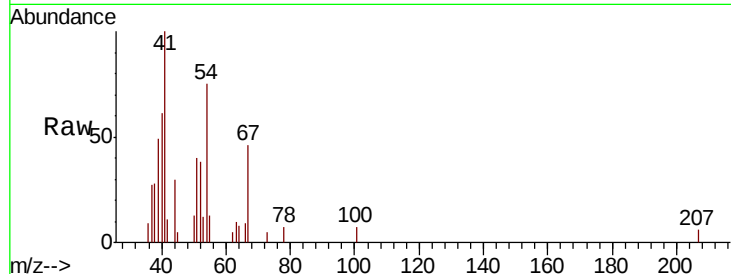
#41
Methacrylonitrile
Concen: 5.81 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	48.6	52.9	79.3#	
67	46.2	45.3	67.9	
52	38.0	34.8	52.2	

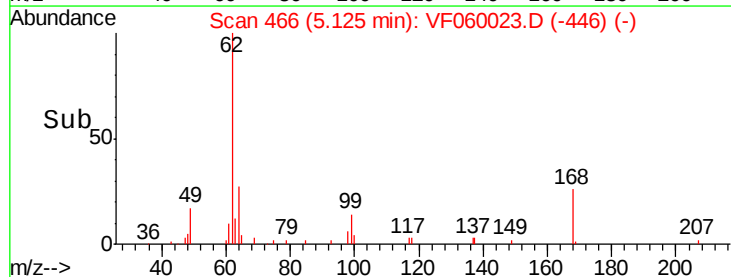
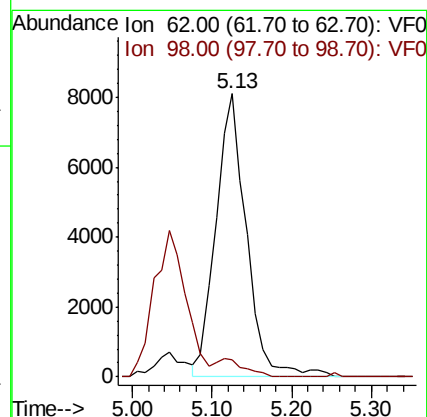
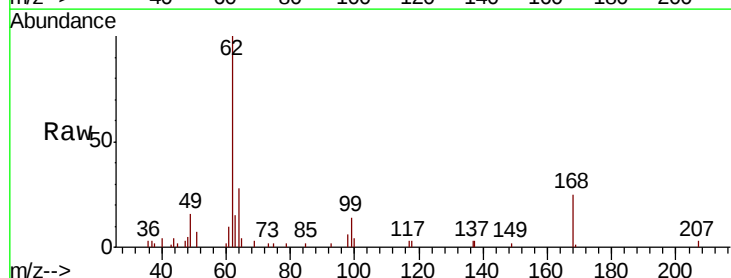
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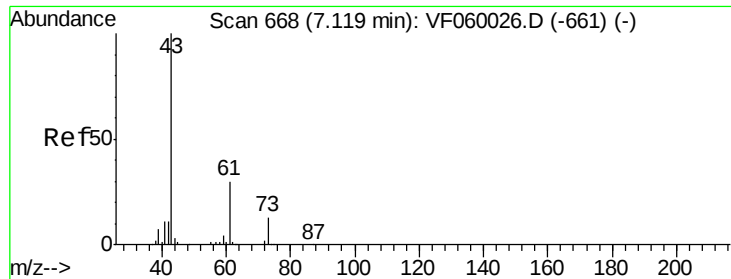
apatel
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#42
1,2-Dichloroethane
Concen: 4.03 ug/l
RT: 5.13 min Scan# 466
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	6.0	0.0	11.2	





#43

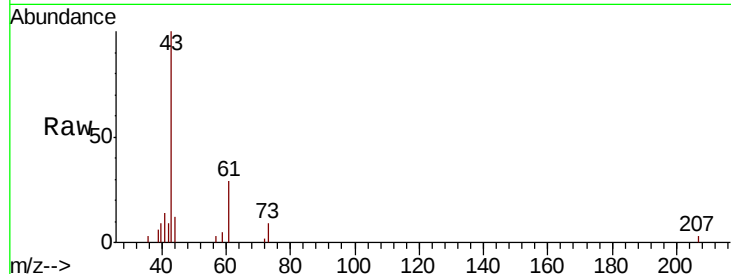
Isopropyl Acetate
 Concen: 5.28 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

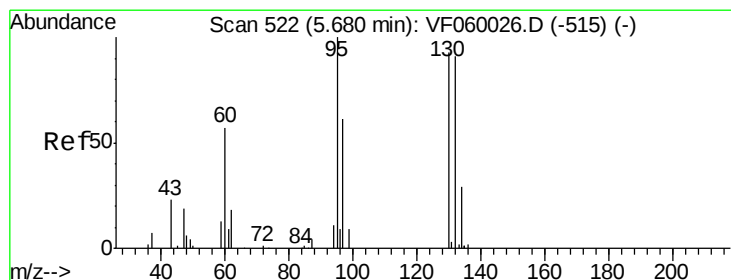
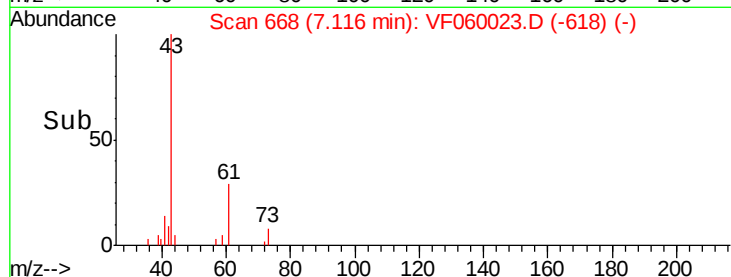
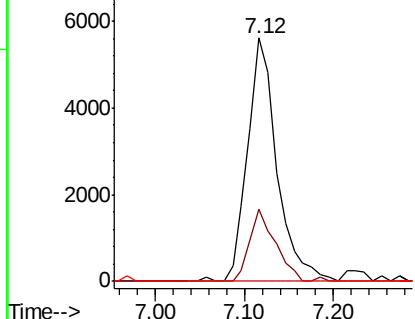
Tot Ion	Ratio	Lower	Upper
43	100		
61	29.5	23.8	35.6
87	0.0	0.2	0.4

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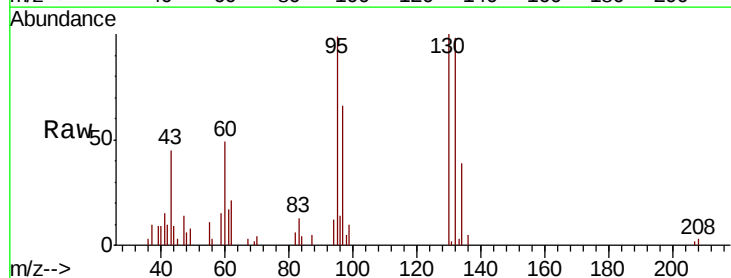
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



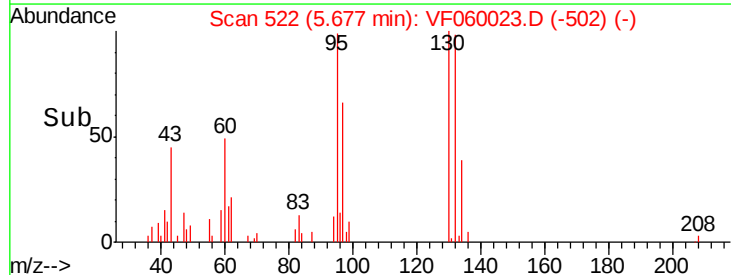
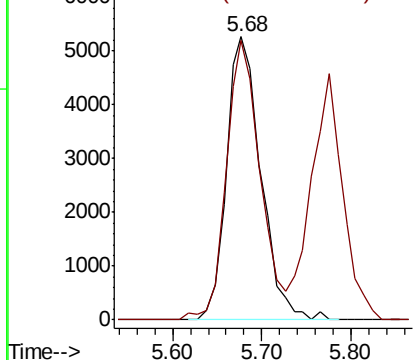
#44

Trichloroethene
 Concen: 5.50 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	215.8



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 5.71 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 11108

Ion Ratio Lower Upper

63 100

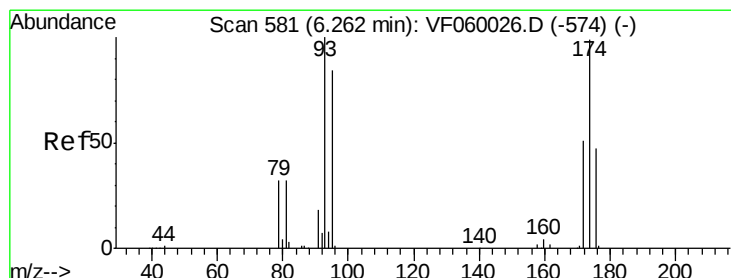
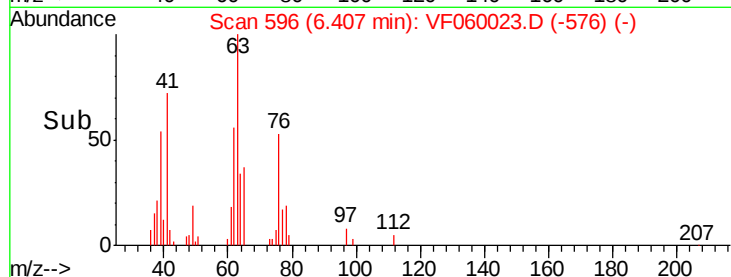
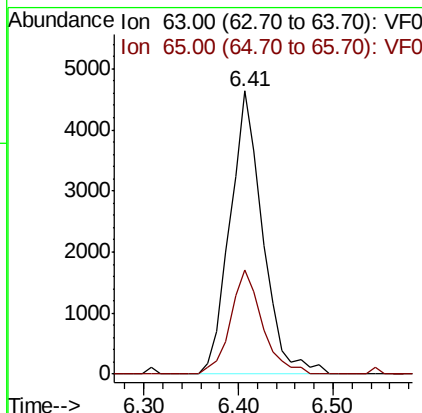
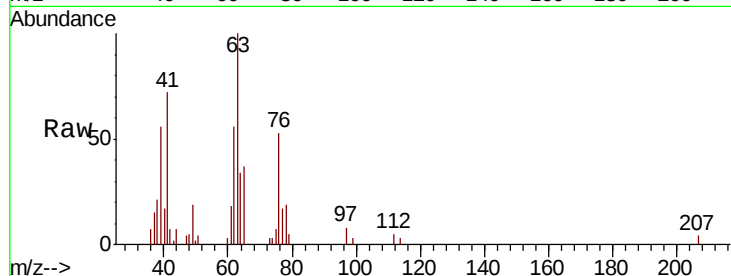
65 36.8 23.8 35.6#

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#46

Dibromomethane

Concen: 4.50 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

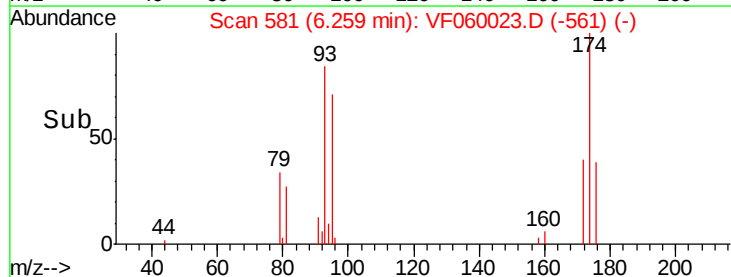
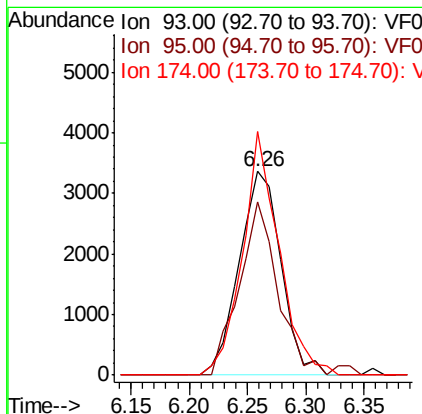
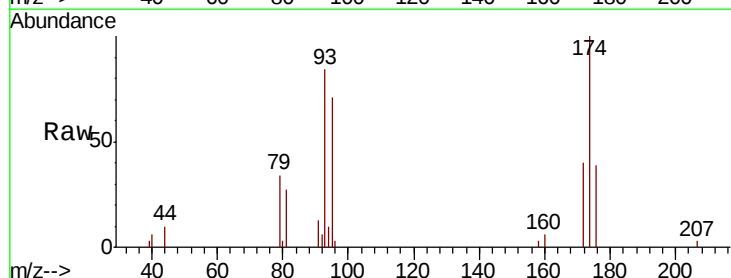
Tgt Ion: 93 Resp: 8375

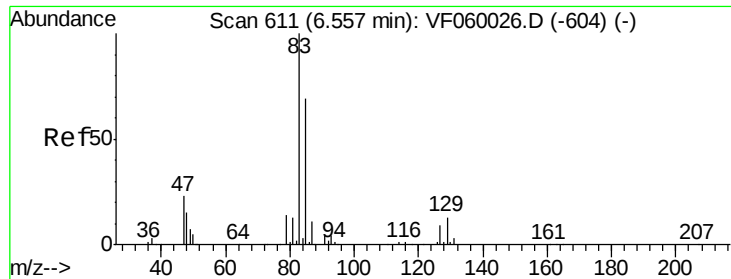
Ion Ratio Lower Upper

93 100

95 85.0 67.1 100.7

174 119.5 79.0 118.4#





#47

Bromodichloromethane

Concen: 4.12 ug/l

RT: 6.55 min Scan# 611

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

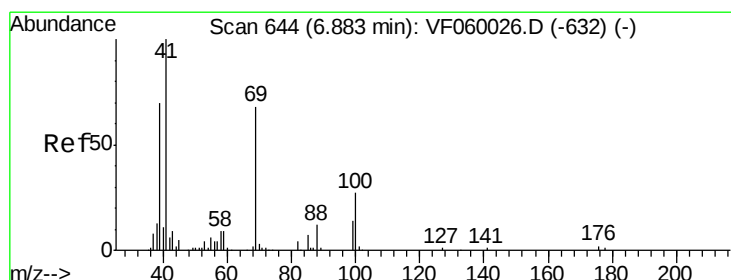
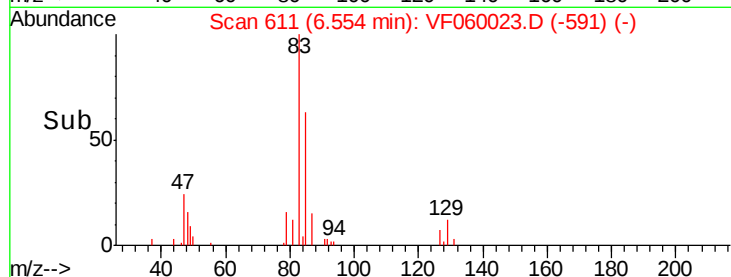
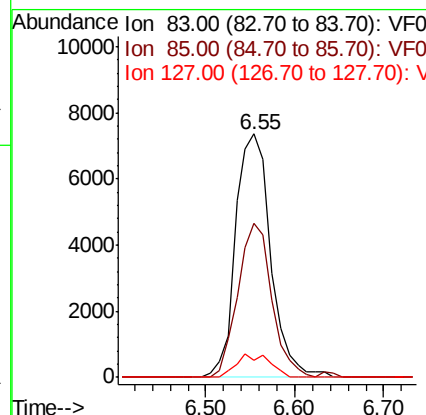
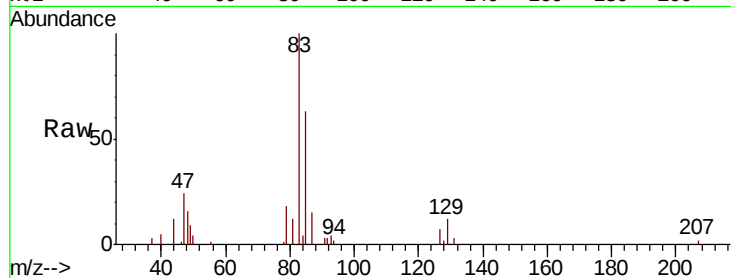
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	20241
Ion	Ratio	Lower	Upper
83	100		
85	63.2	55.2	82.8
127	9.4	7.3	10.9

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#48

Methyl methacrylate

Concen: 5.00 ug/l

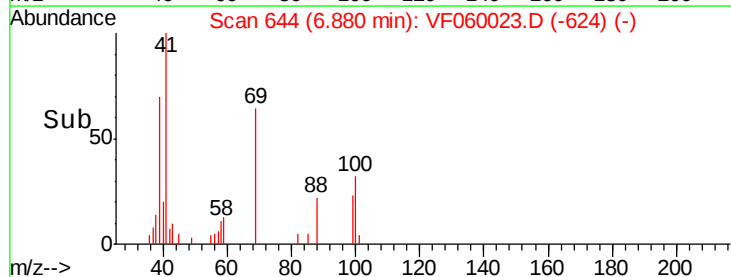
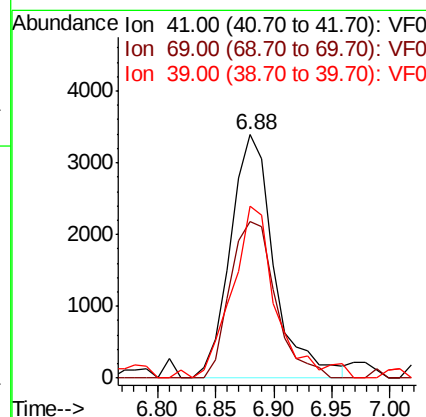
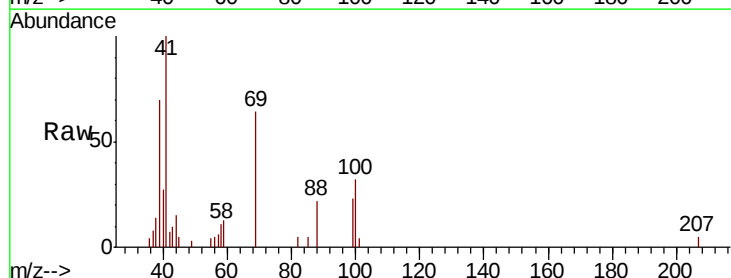
RT: 6.88 min Scan# 644

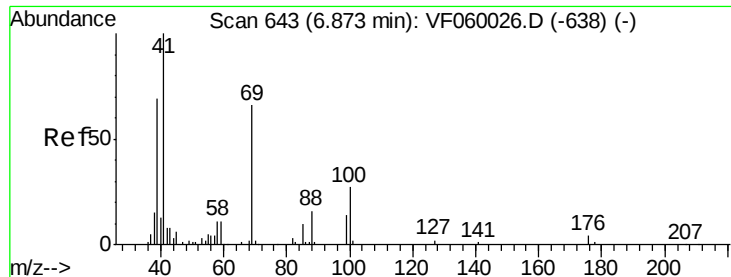
Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Tgt Ion:	41	Resp:	8868
Ion	Ratio	Lower	Upper
41	100		
69	64.4	54.6	81.8
39	70.4	56.5	84.7





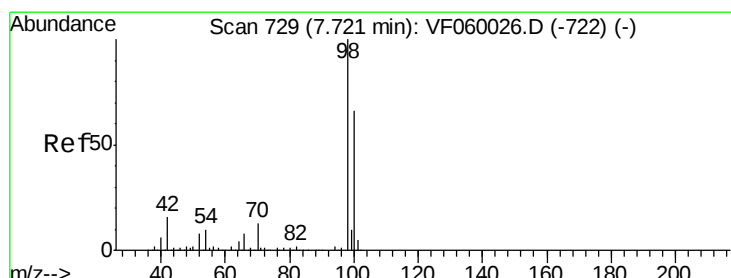
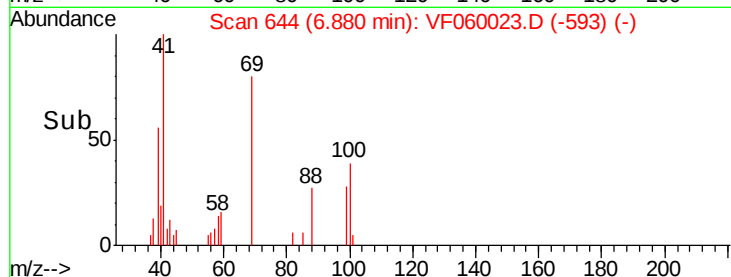
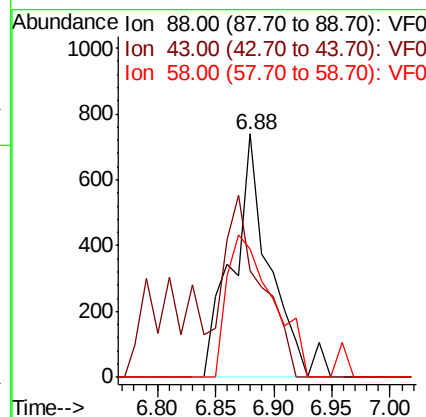
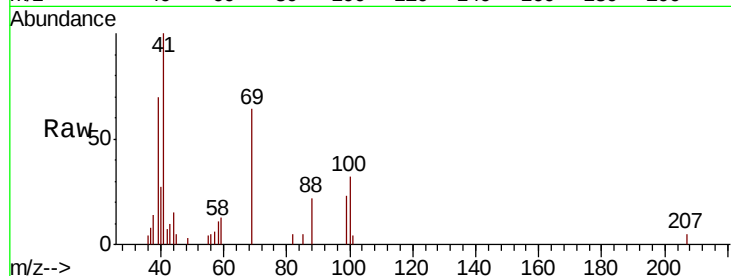
#49
1,4-Dioxane
Concen: 116.76 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
88	100	1625		
43	43.7		46.5	69.7#
58	52.8		54.8	82.2#

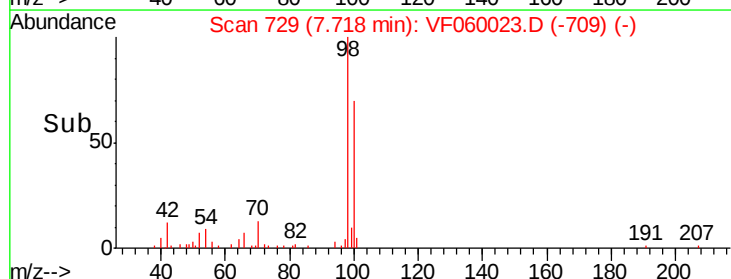
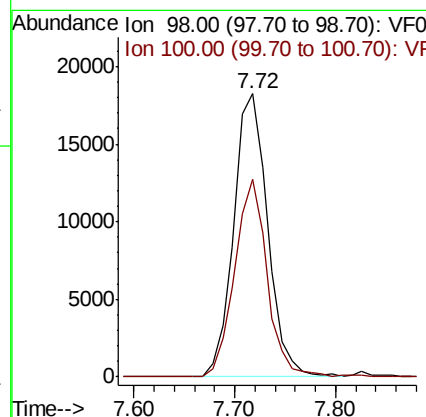
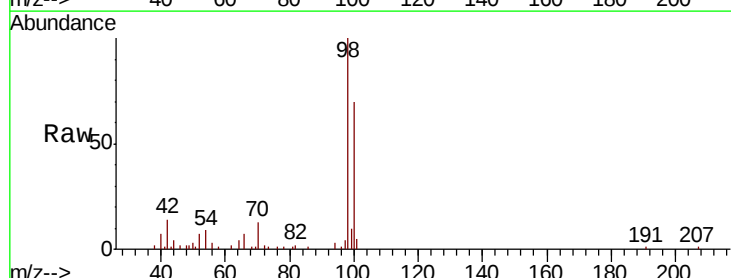
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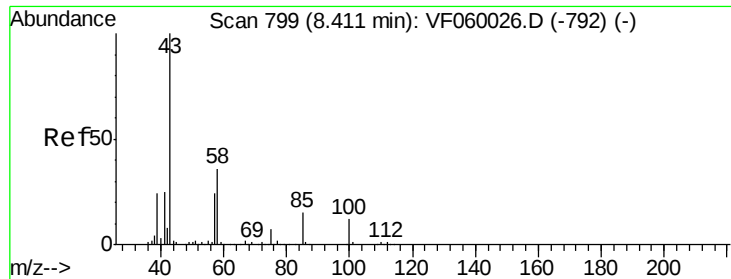
apatel
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#50
Toluene-d8
Concen: 5.43 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	42734		
100	69.9		53.2	79.8





#51

4-Methyl-2-Pentanone

Concen: 27.08 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 60872

Ion Ratio Lower Upper

43 100

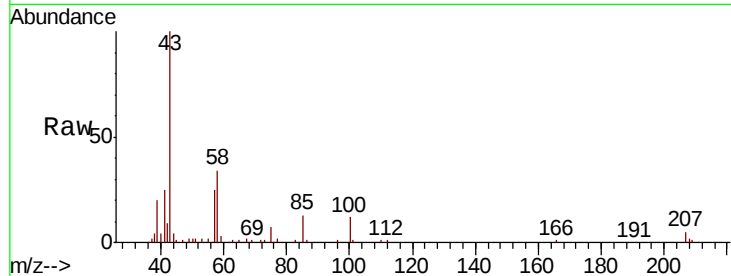
58 34.2 28.6 42.8

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

25000

20000

15000

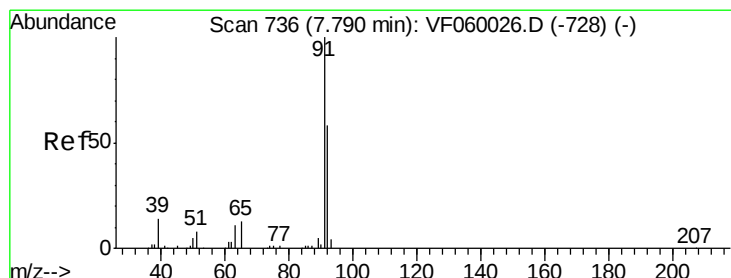
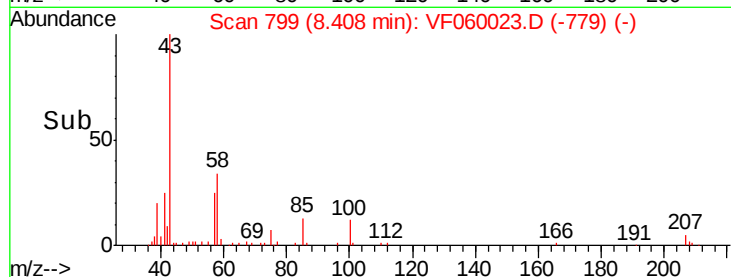
10000

5000

0

8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 6.17 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF060023.D

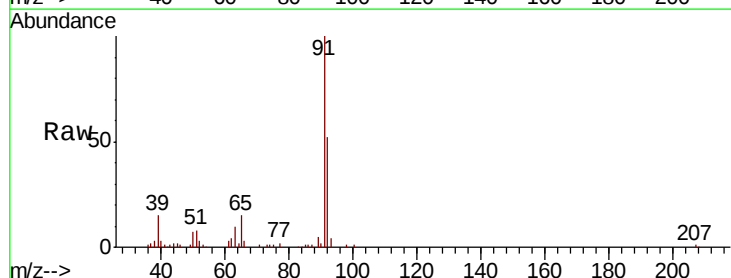
Acq: 21 Aug 2018 16:59

Tgt Ion: 92 Resp: 31099

Ion Ratio Lower Upper

92 100

91 193.0 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.79

25000

20000

15000

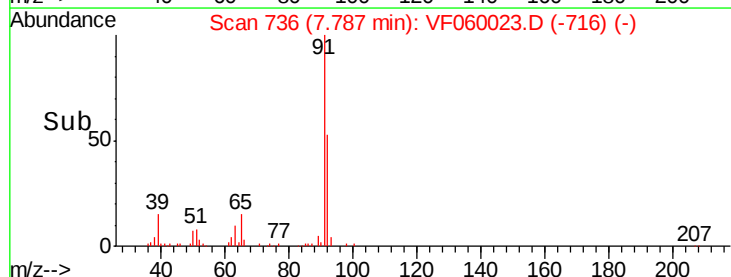
10000

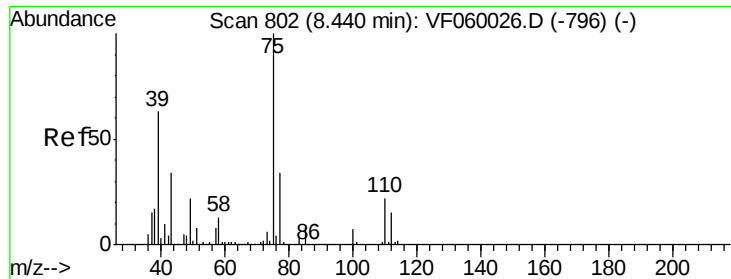
5000

0

7.70 7.80 7.90

Time-->





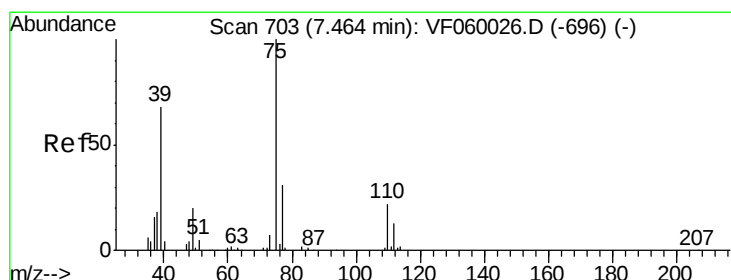
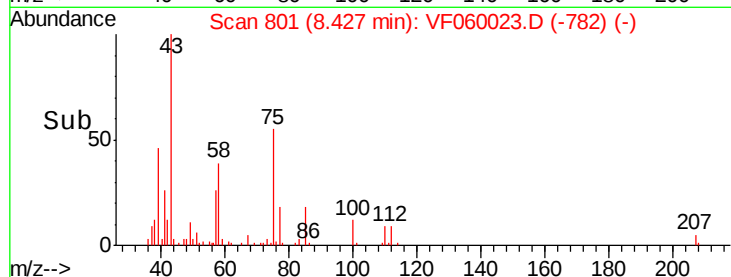
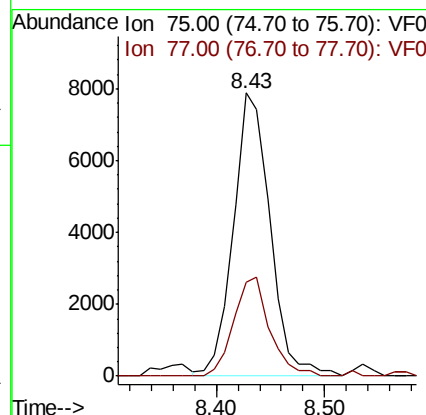
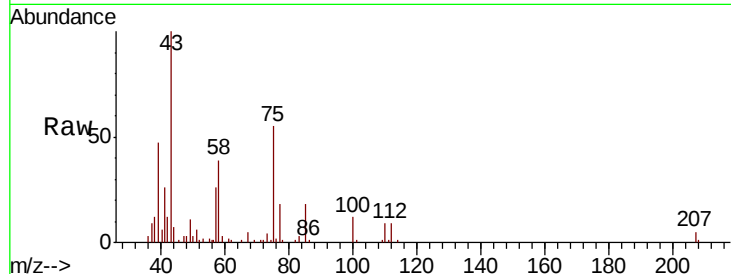
#53
 t-1,3-Dichloropropene
 Concen: 4.47 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. -0.01 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion: 75 Resp: 18648
 Ion Ratio Lower Upper
 75 100
 77 33.4 27.4 41.2

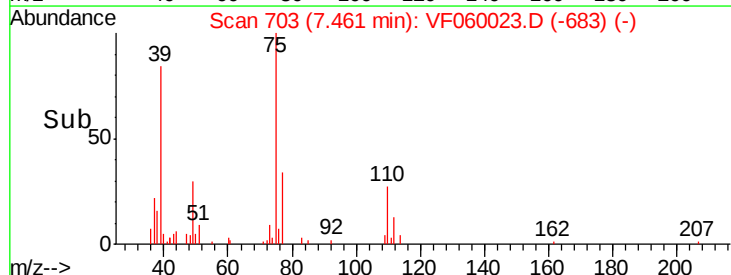
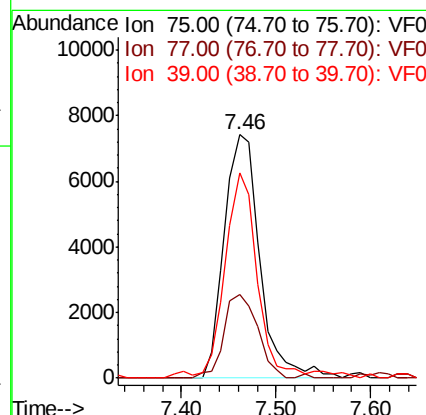
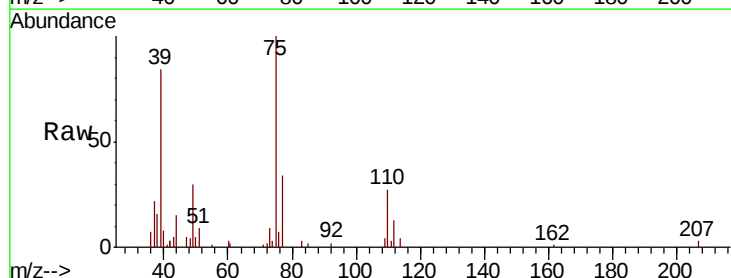
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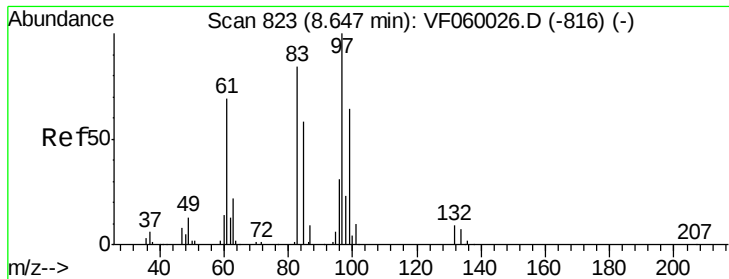
apatel
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#54
 cis-1,3-Dichloropropene
 Concen: 4.71 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 75 Resp: 19444
 Ion Ratio Lower Upper
 75 100
 77 34.5 24.6 37.0
 39 84.2 54.6 81.8#





#55

1,1,2-Trichloroethane

Concen: 4.89 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 97 Resp: 9852

Ion Ratio Lower Upper

97 100

83 101.0 67.4 101.2

85 69.5 46.2 69.2#

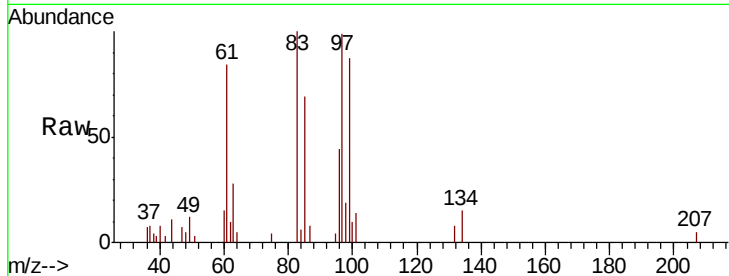
99 88.1 51.1 76.7#

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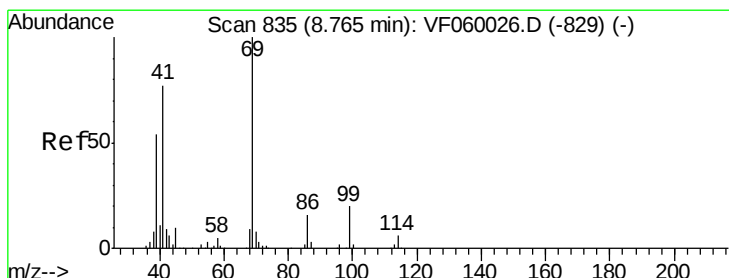
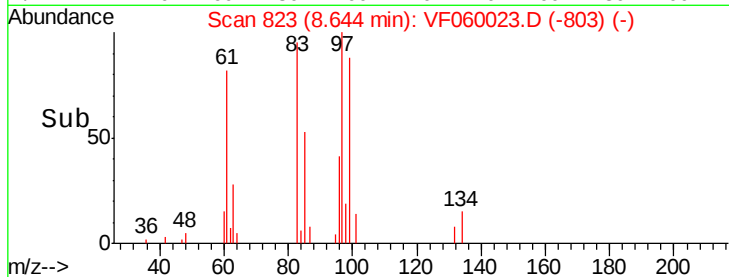
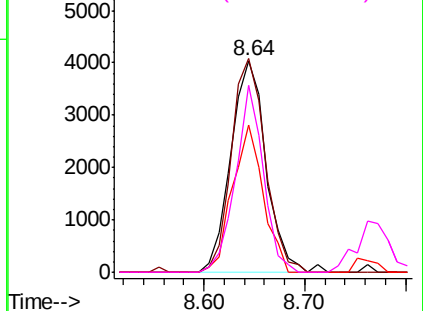


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 4.77 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

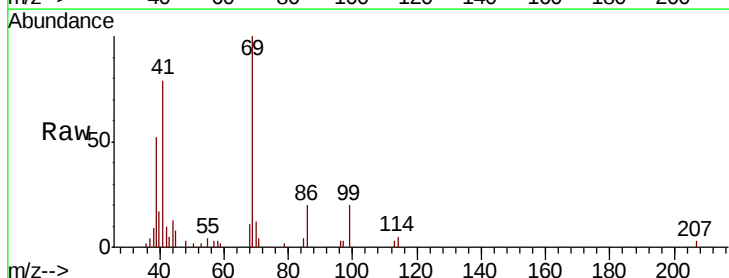
Tgt Ion: 69 Resp: 11200

Ion Ratio Lower Upper

69 100

41 79.0 61.6 92.4

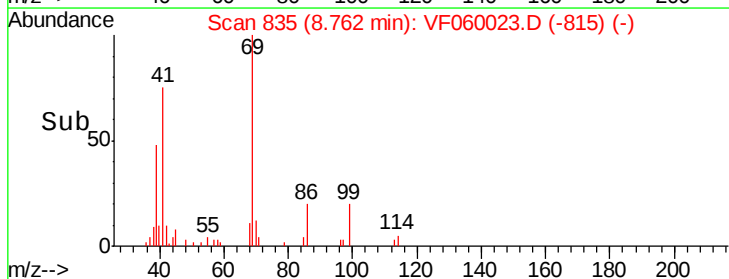
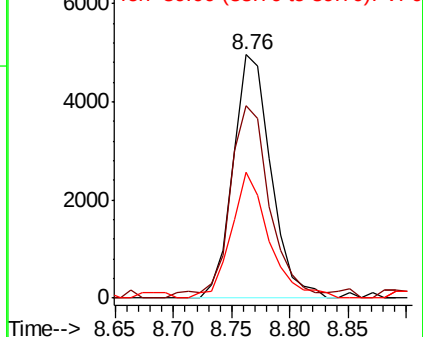
39 51.9 43.9 65.9

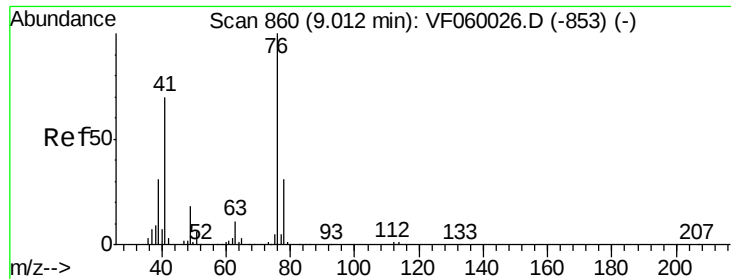


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





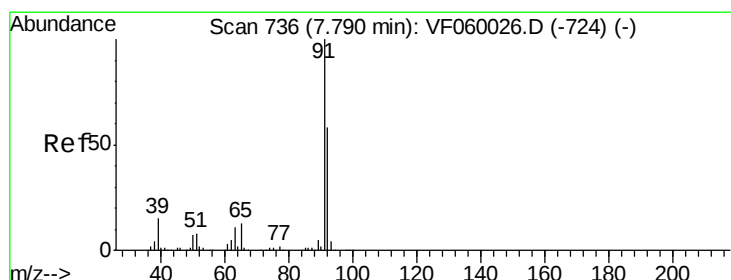
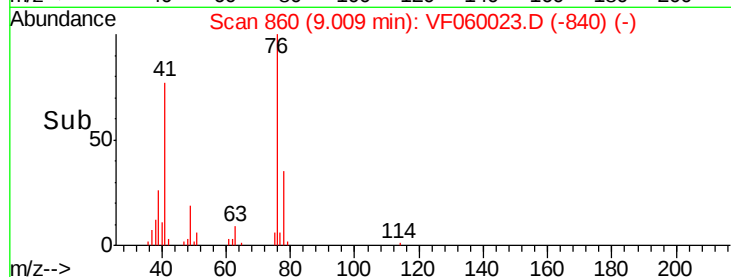
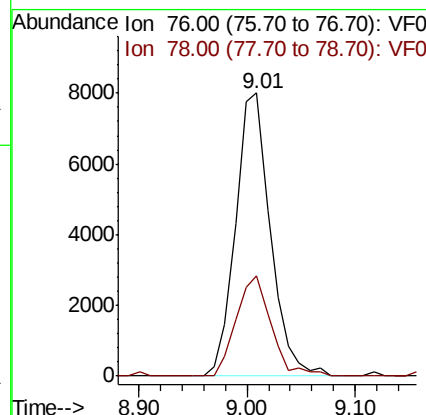
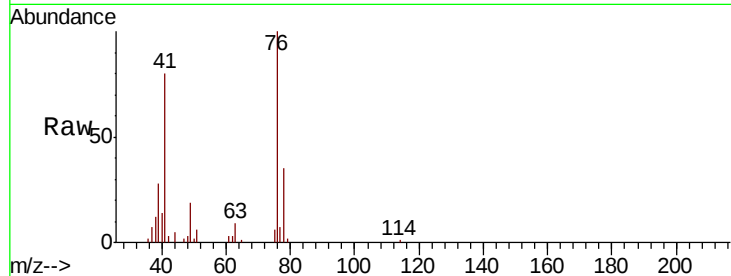
#57
 1,3-Dichloropropane
 Concen: 4.98 ug/l
 RT: 9.01 min Scan# 860
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.3	25.2	37.8

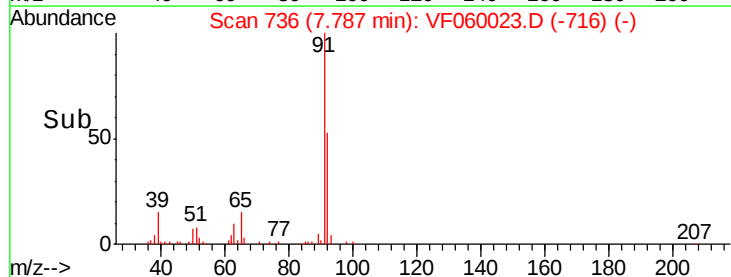
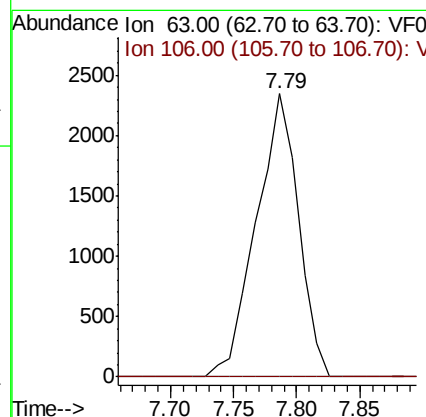
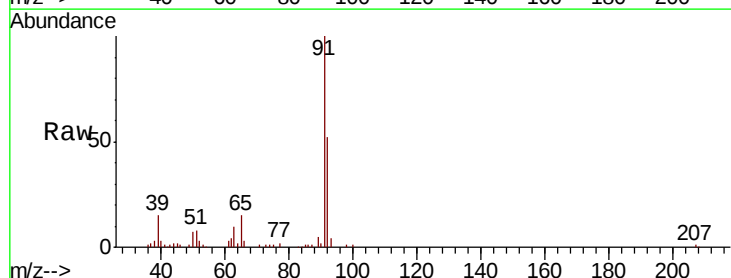
Manual Integrations
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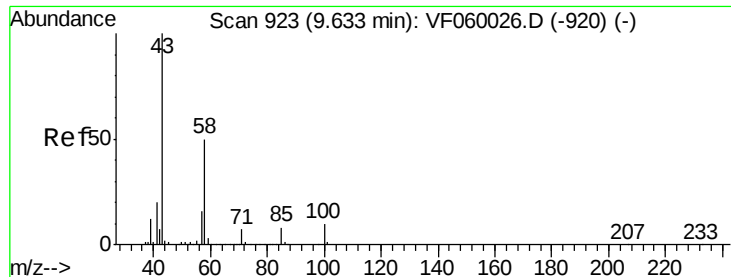
apatel
 8/22/2018 10:09:16 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 29.37 ug/l
 RT: 7.79 min Scan# 736
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





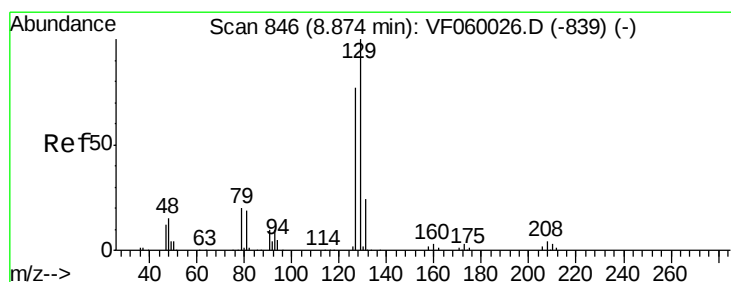
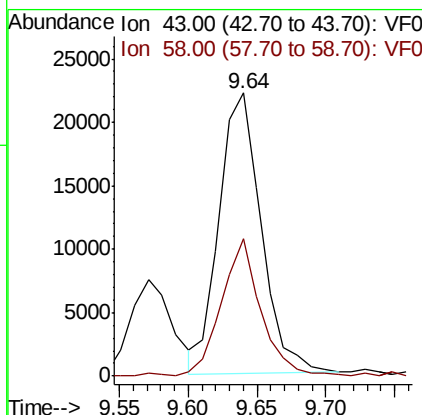
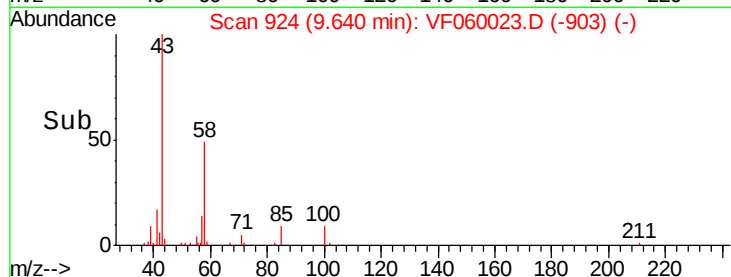
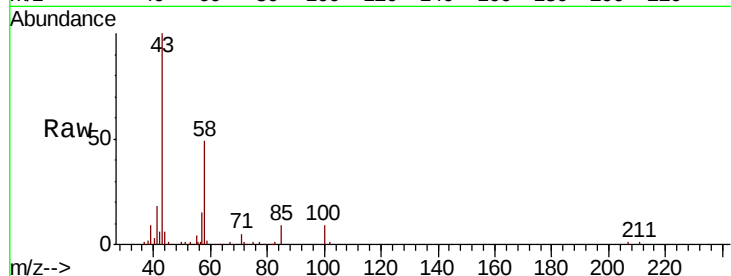
#59
2-Hexanone
Concen: 25.36 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	43.00	Resp	47132
Ion Ratio	Lower	Upper	
43	100		
58	48.6	23.4	70.2

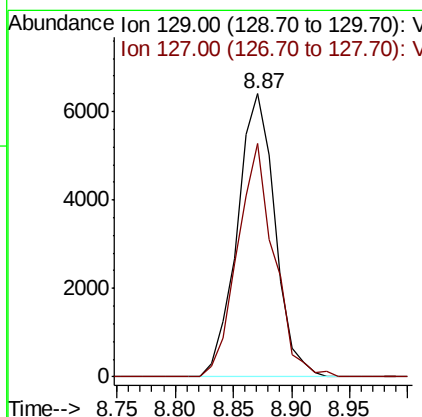
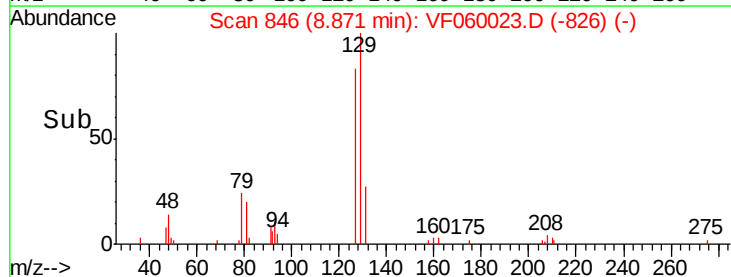
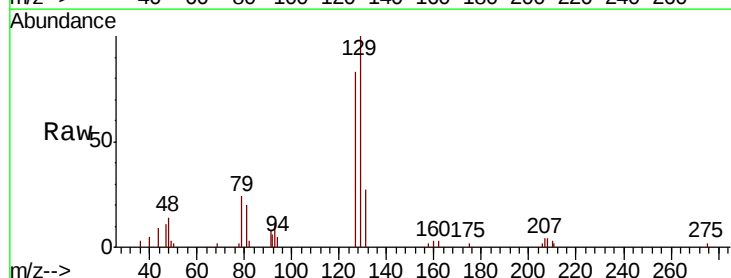
Manual Integrations
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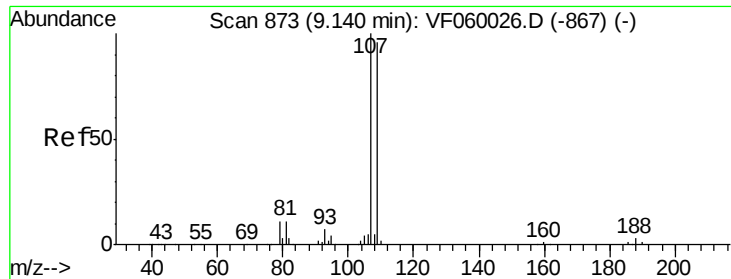
apatel
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#60
Dibromochloromethane
Concen: 4.06 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	129.00	Resp	14394
Ion Ratio	Lower	Upper	
129	100		
127	82.6	38.6	115.8





#61

1,2-Dibromoethane

Concen: 4.80 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 11897

Ion Ratio Lower Upper

107 100

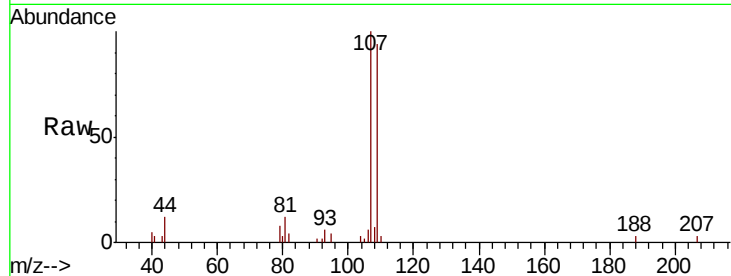
109 93.8 76.5 114.7

Manual Integrations

APPROVED

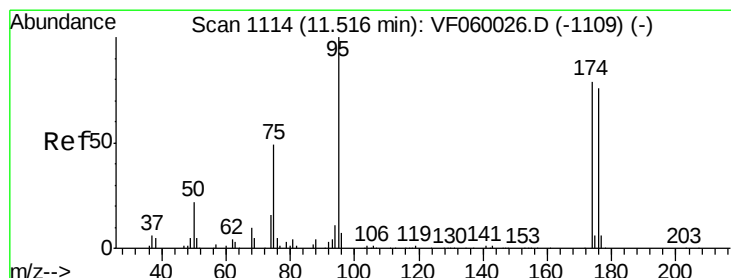
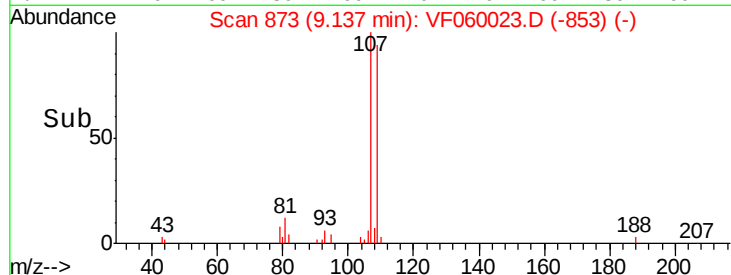
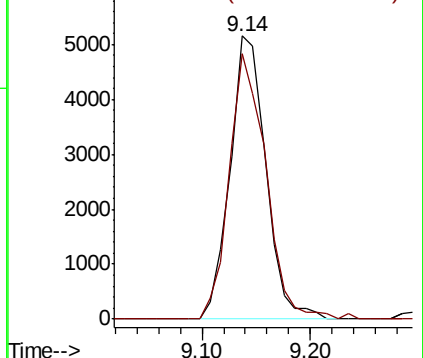
apatel

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 4.94 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

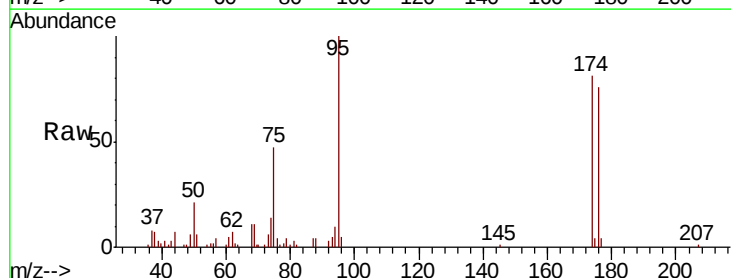
Tgt Ion: 95 Resp: 23284

Ion Ratio Lower Upper

95 100

174 81.0 0.0 158.4

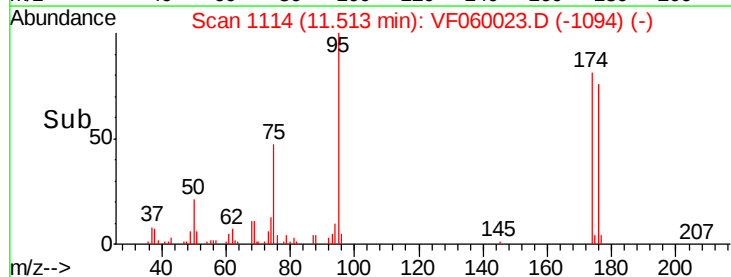
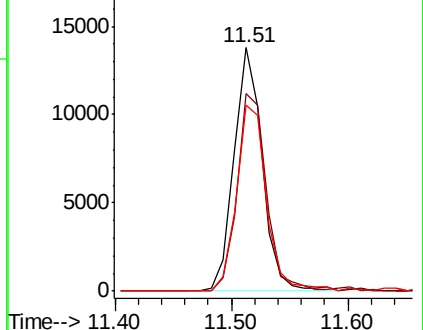
176 76.3 0.0 153.0

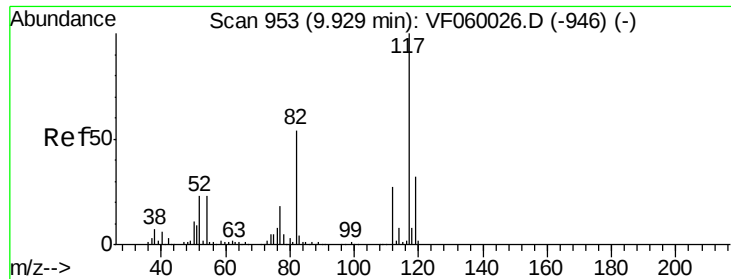


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





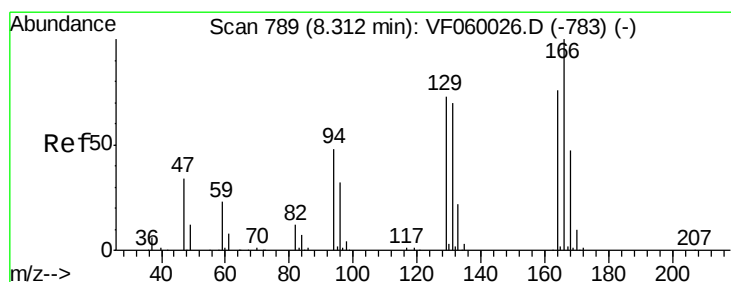
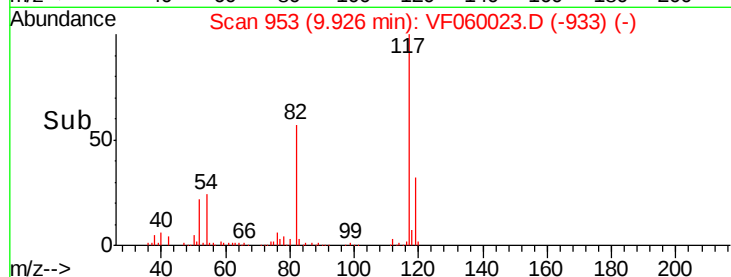
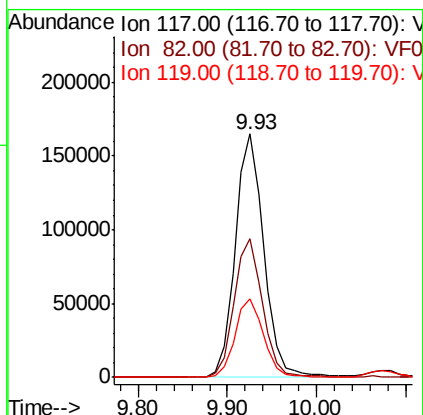
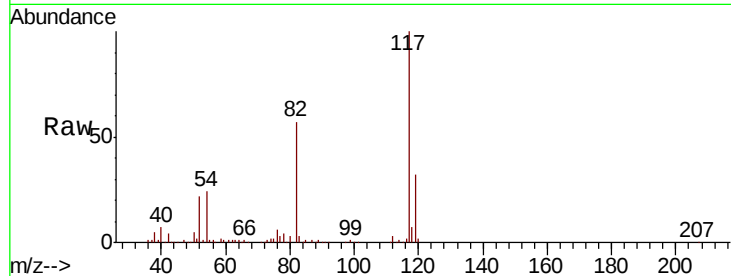
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	43.6	65.4
119	32.3	25.6	38.4

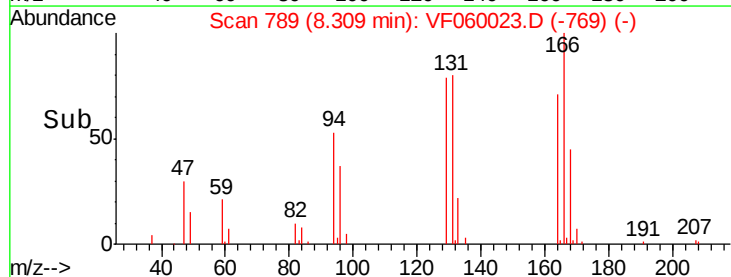
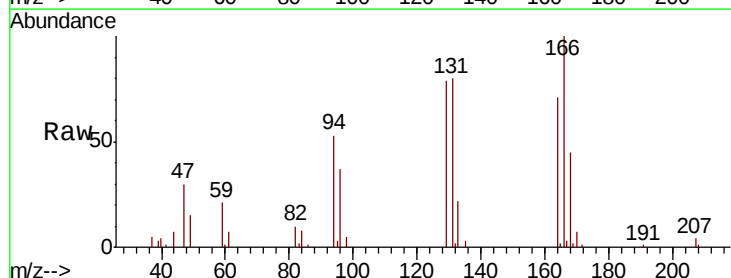
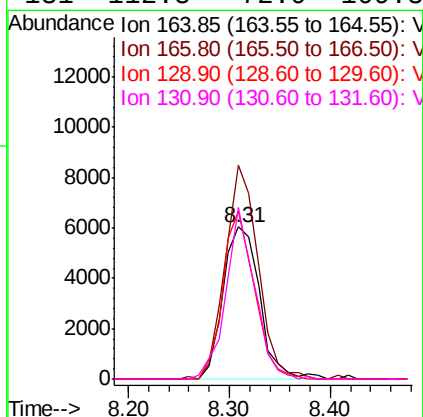
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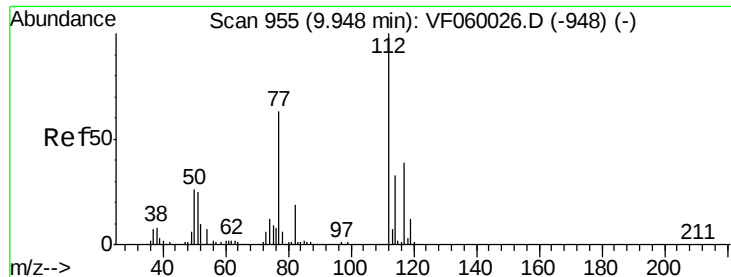
apatel
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#64
Tetrachloroethene
Concen: 5.46 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	140.3	104.7	157.1
129	110.4	77.0	115.4
131	112.8	72.9	109.3#





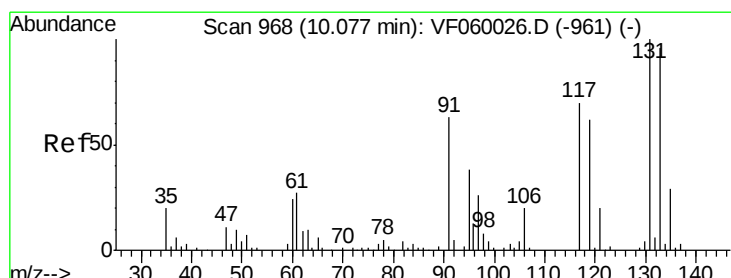
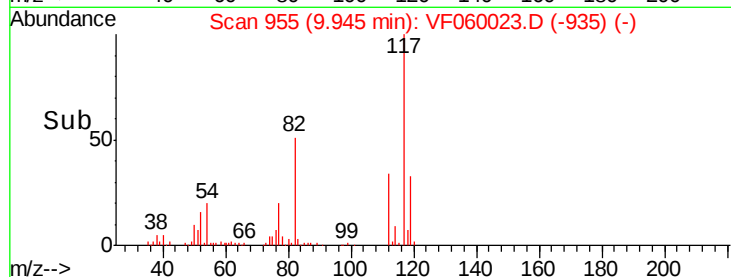
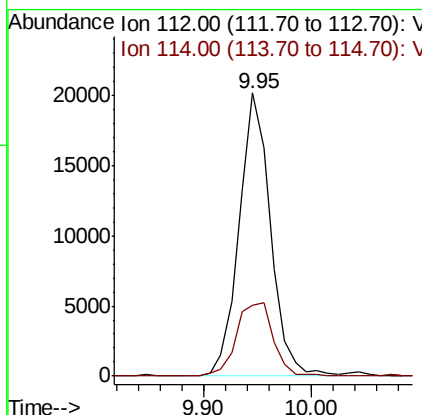
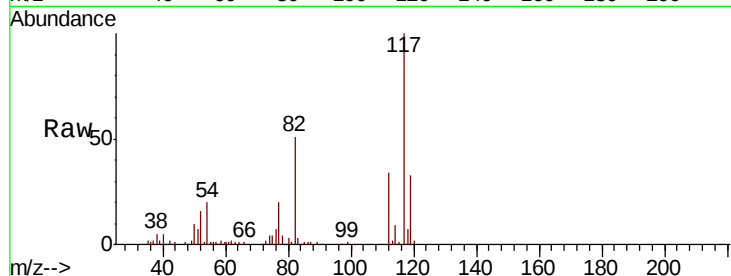
#65
Chlorobenzene
Concen: 5.61 ug/l
RT: 9.95 min Scan# 955
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 40703
Ion Ratio Lower Upper
112 100
114 25.3 26.2 39.2#

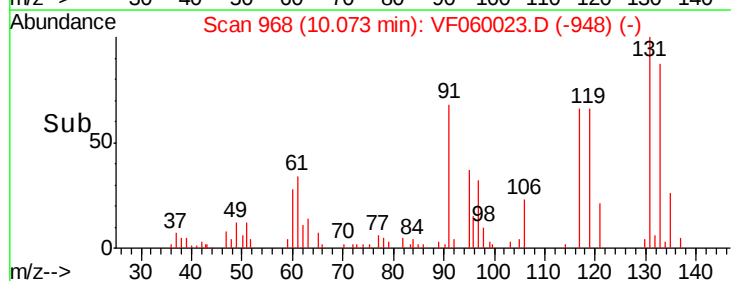
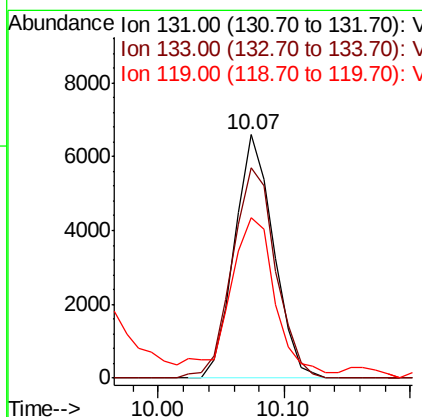
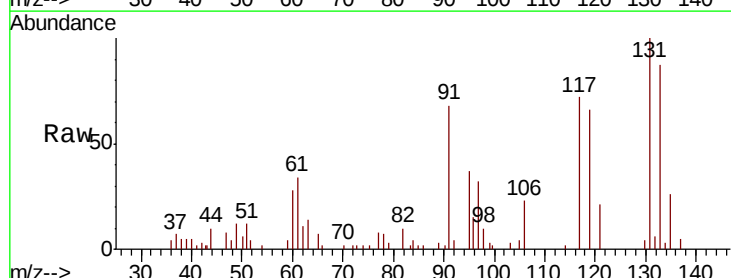
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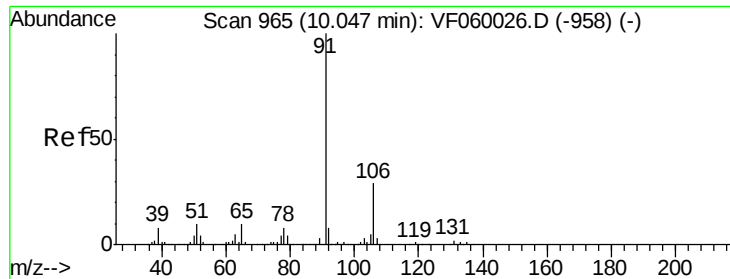
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.35 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion:131 Resp: 14120
Ion Ratio Lower Upper
131 100
133 86.6 48.2 144.6
119 65.8 31.4 94.2





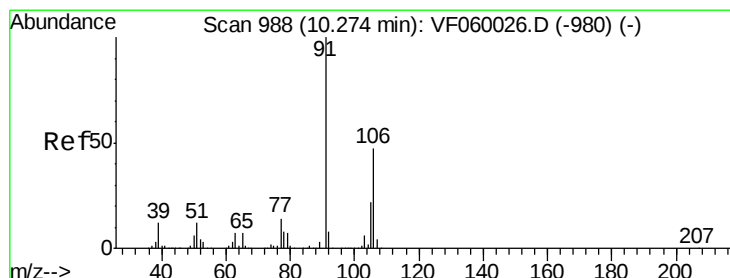
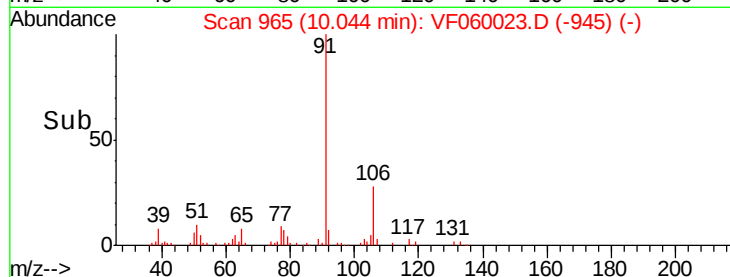
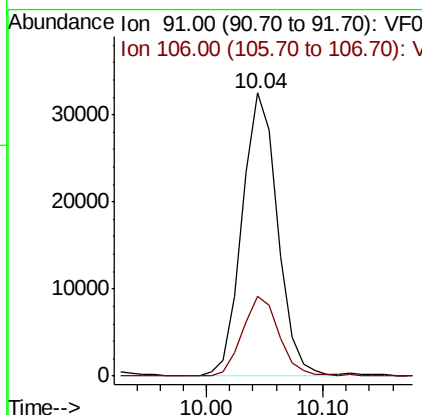
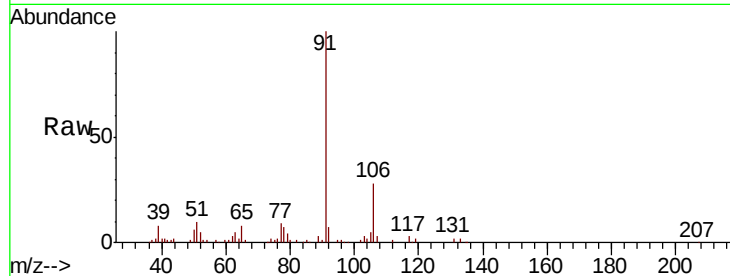
#67
Ethyl Benzene
Concen: 5.27 ug/l
RT: 10.04 min Scan# 965
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 68902
Ion Ratio Lower Upper
91 100
106 28.4 23.6 35.4

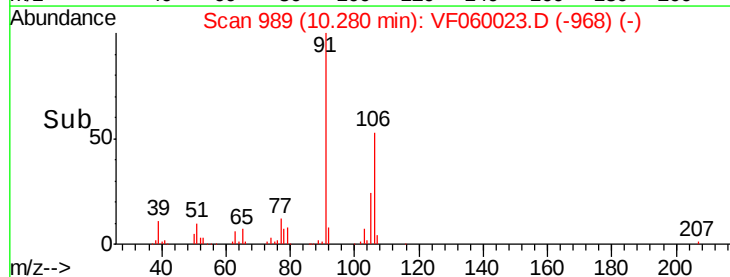
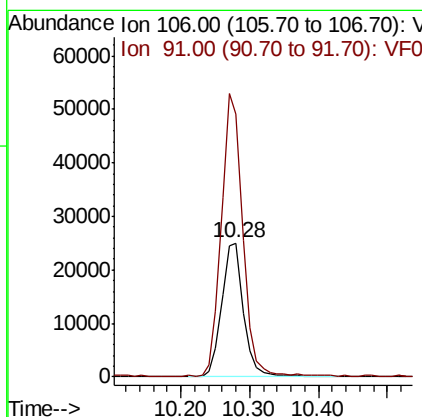
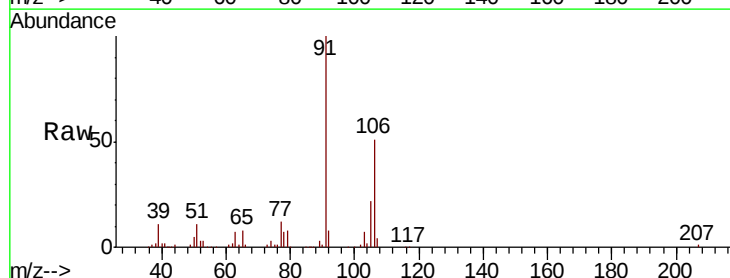
Manual Integrations
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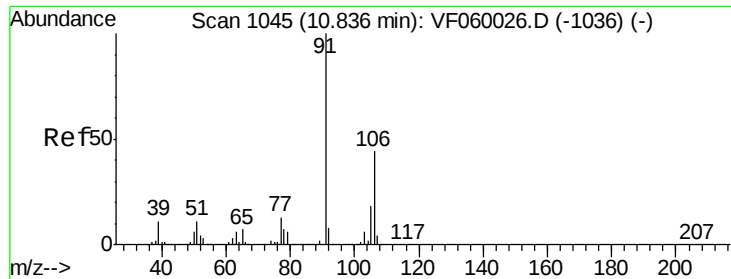
apatel
8/22/2018 10:09:16 AM



#68
m/p-Xylenes
Concen: 11.96 ug/l
RT: 10.28 min Scan# 989
Delta R.T. 0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion: 106 Resp: 55086
Ion Ratio Lower Upper
106 100
91 197.0 171.8 257.8





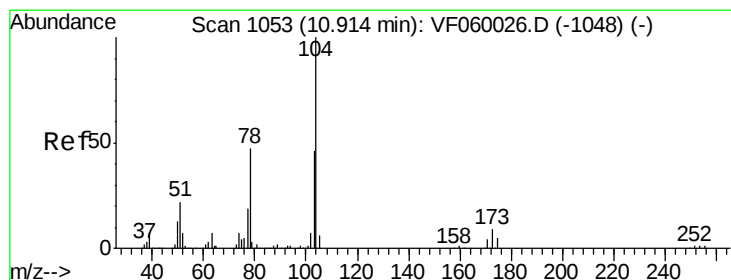
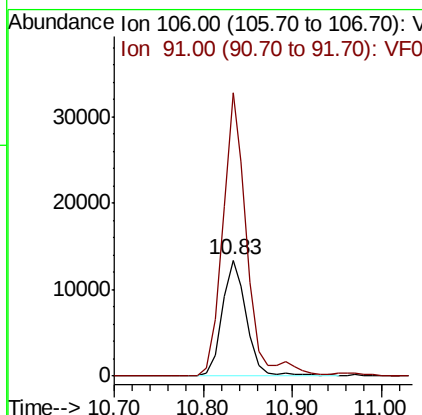
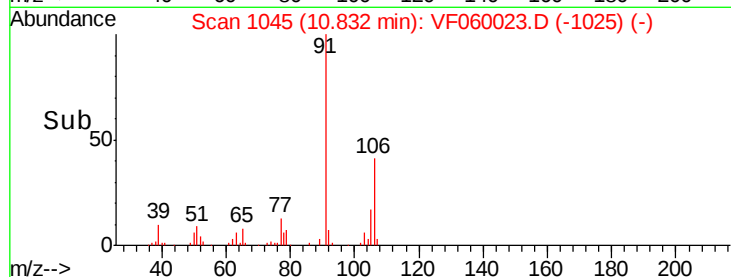
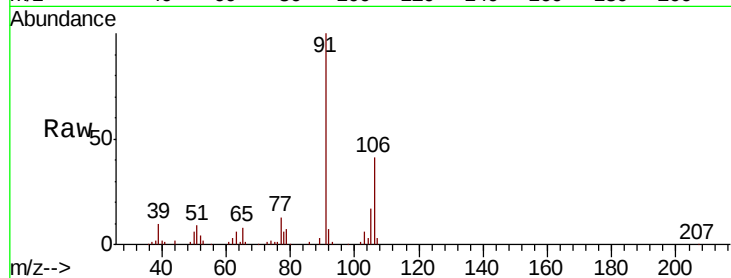
#69
o-Xylene
Concen: 5.47 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 25774
Ion Ratio Lower Upper
106 100
91 244.5 112.5 337.5

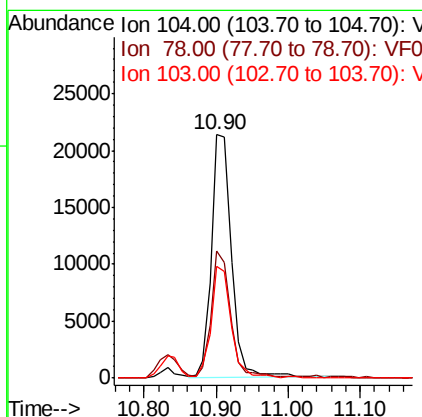
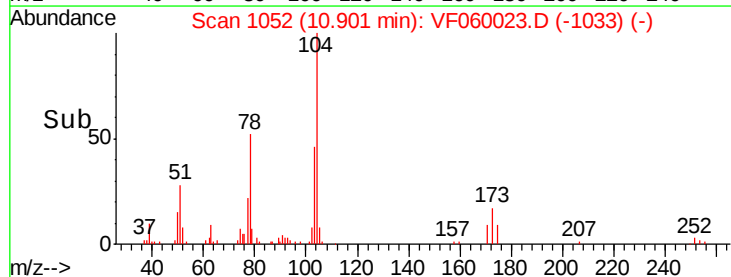
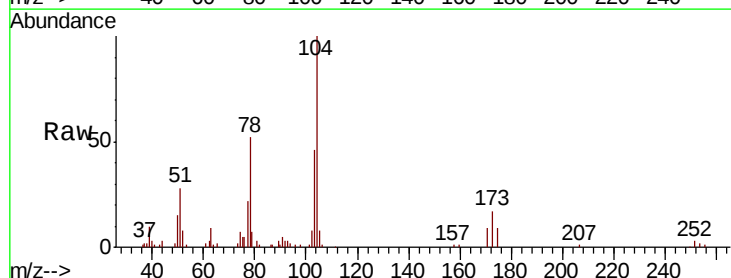
Manual Integrations
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#70
Styrene
Concen: 5.40 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion:104 Resp: 40645
Ion Ratio Lower Upper
104 100
78 52.4 38.0 57.0
103 45.8 37.6 56.4





#71

Bromoform

Concen: 3.77 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:173 Resp: 9032

Ion Ratio Lower Upper

173 100

175 52.5 24.7 74.1

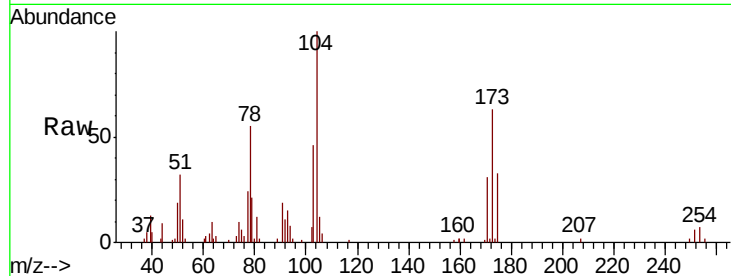
254 0.0 0.0 0.0

Manual Integrations

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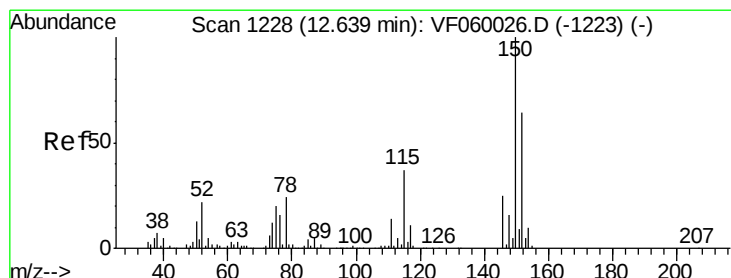
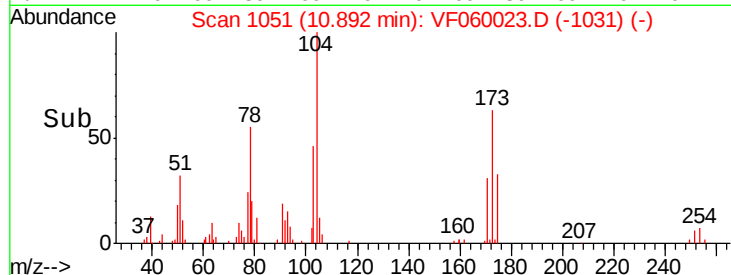
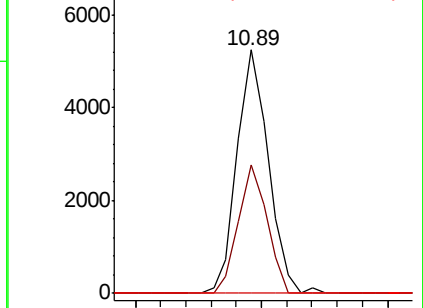
8/22/2018 10:09:16 AM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

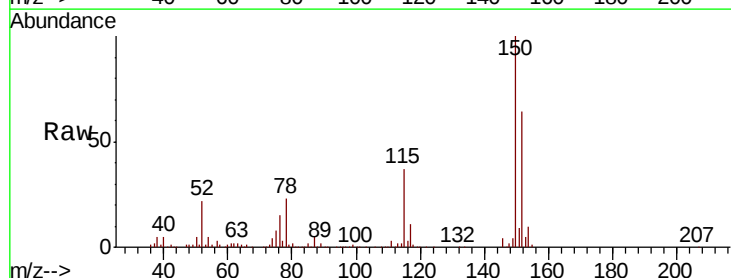
Tgt Ion:152 Resp: 232365

Ion Ratio Lower Upper

152 100

115 57.0 28.6 85.9

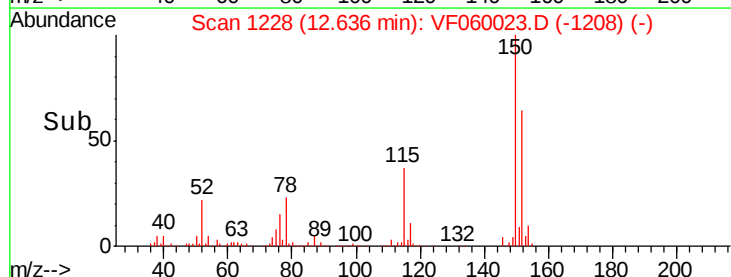
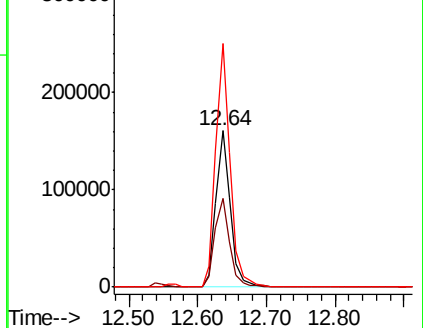
150 155.6 0.0 312.0

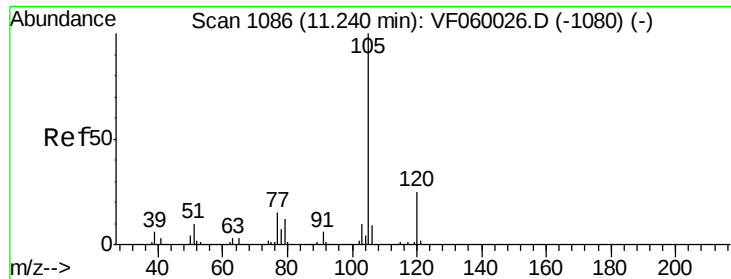


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





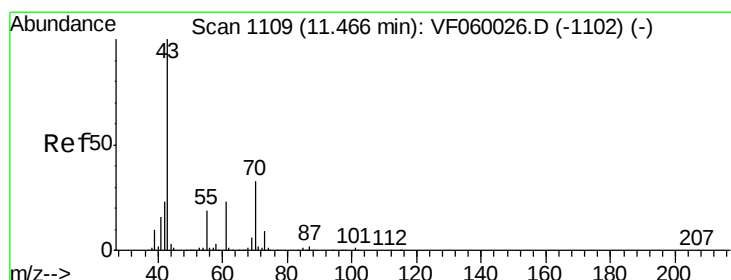
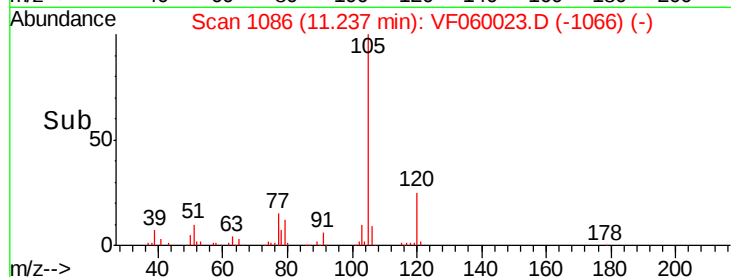
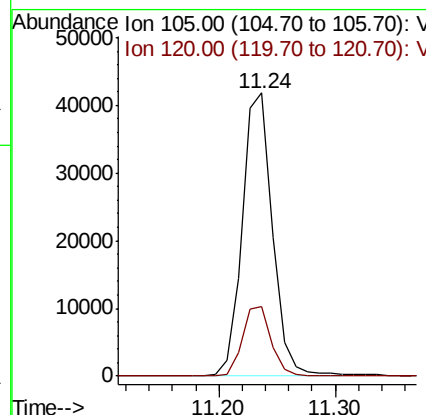
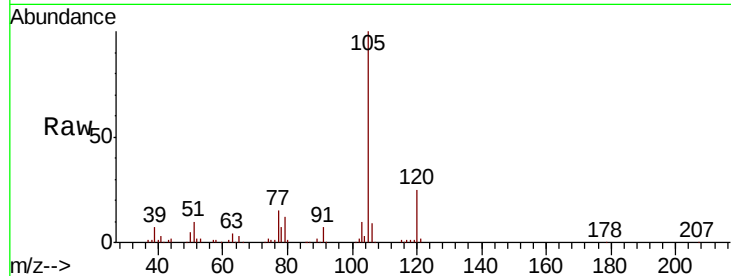
#73
Isopropylbenzene
Concen: 5.37 ug/l
RT: 11.24 min Scan# 1086
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.5	12.7	38.0

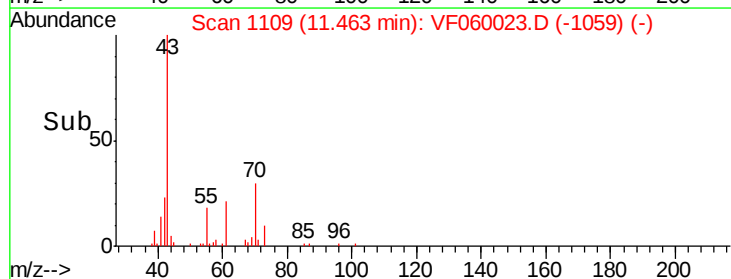
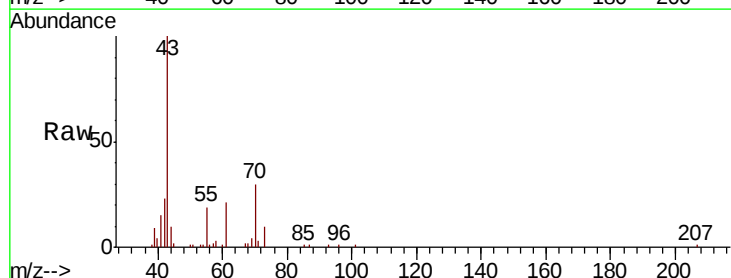
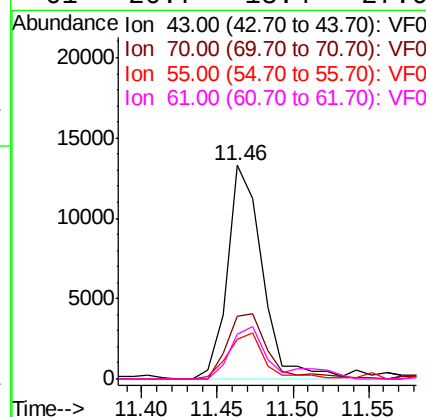
Manual Integrations
APPROVED

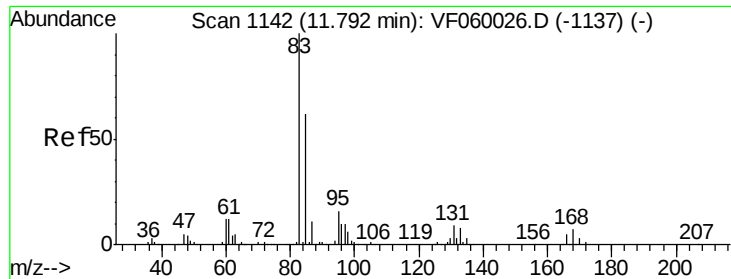
apatel
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#74
N-ethyl acetate
Concen: 5.30 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
43	100		
70	29.6	26.4	39.6
55	18.7	15.0	22.4
61	20.7	18.4	27.6





#75

1,1,2,2-Tetrachloroethane

Concen: 5.74 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

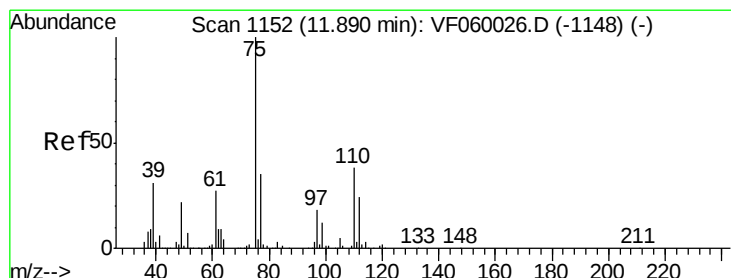
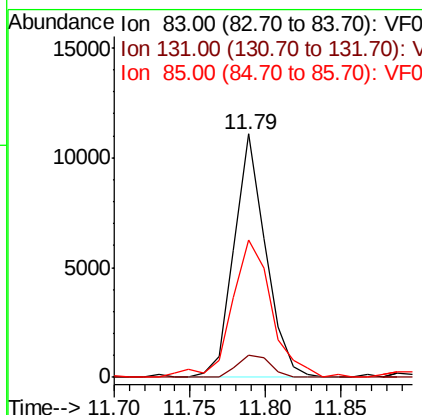
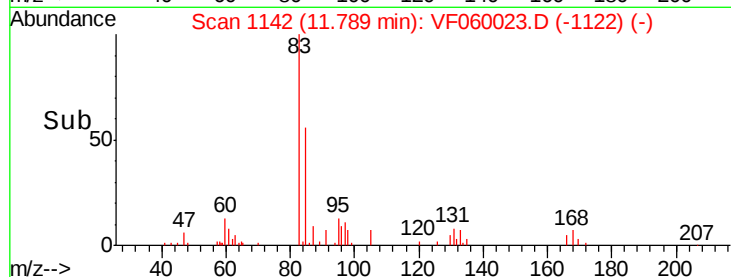
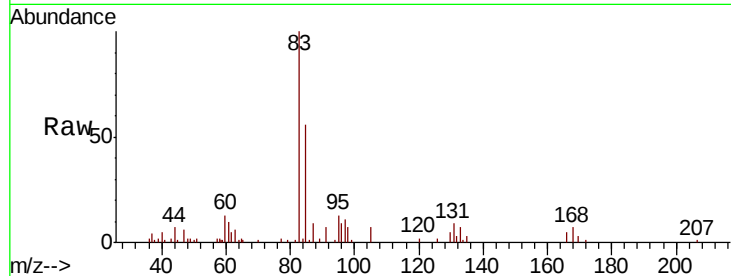
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	16135
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.5	13.7
85	56.5	31.3	93.9

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#76

1,2,3-Trichloropropane

Concen: 5.45 ug/l

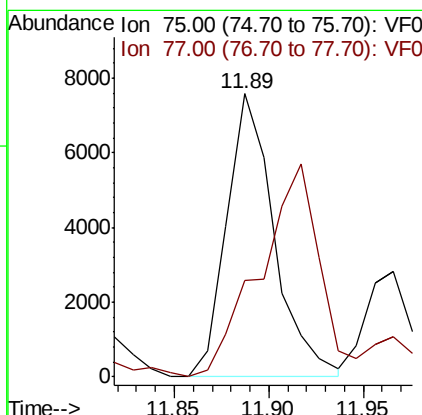
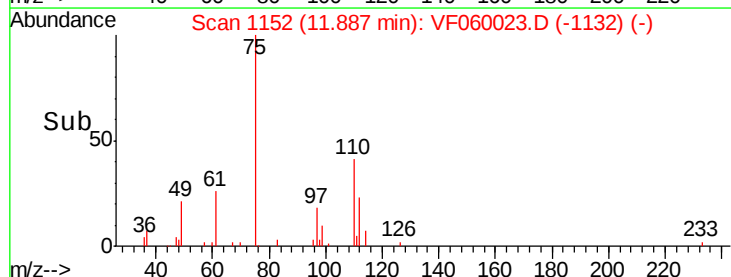
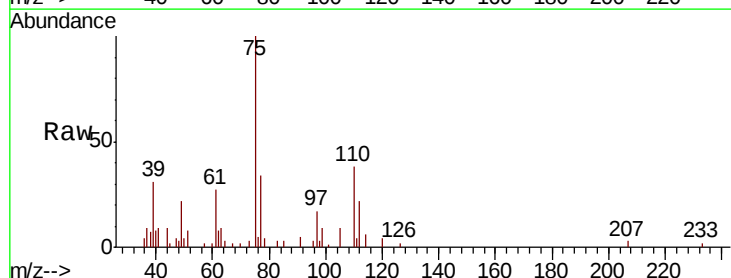
RT: 11.89 min Scan# 1152

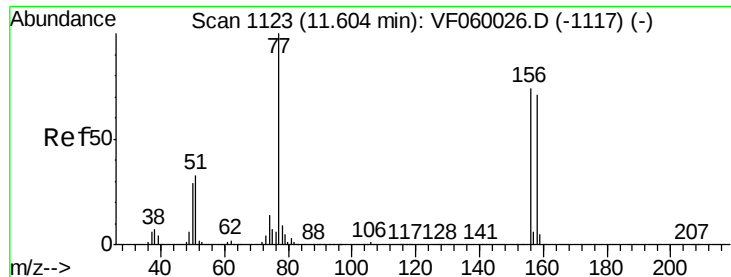
Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Tgt Ion:	75	Resp:	13190
Ion Ratio	Lower	Upper	
75	100		
77	34.3	17.3	52.0





#77

Bromobenzene

Concen: 5.43 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 21095

Ion Ratio Lower Upper

156 100

77 137.7 68.0 204.0

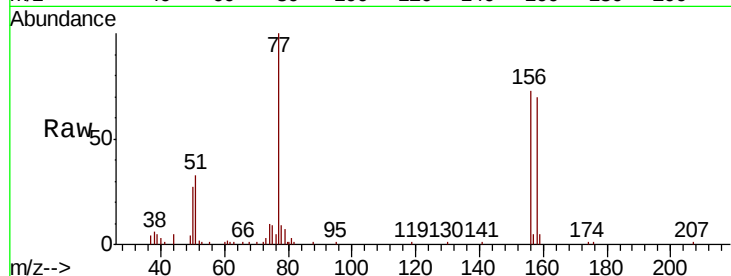
158 96.7 48.4 145.3

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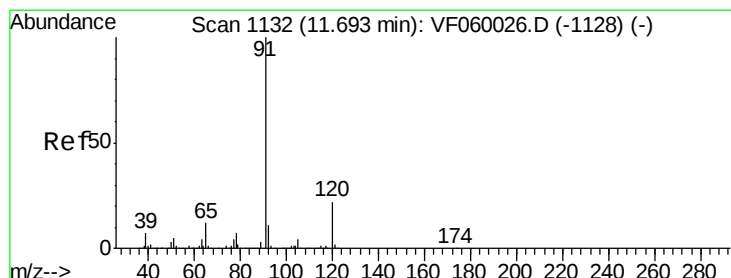
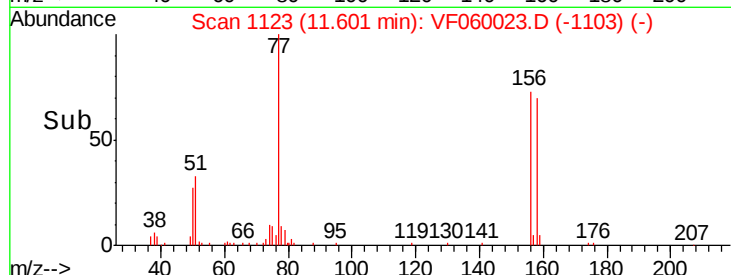
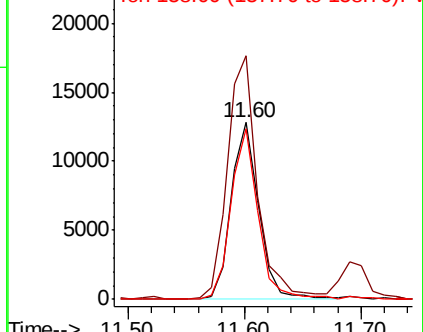
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 5.93 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF060023.D

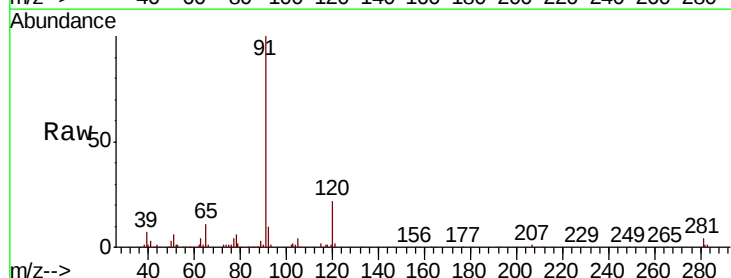
Acq: 21 Aug 2018 16:59

Tgt Ion: 91 Resp: 103237

Ion Ratio Lower Upper

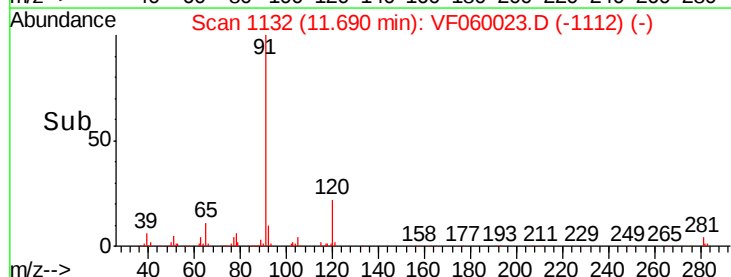
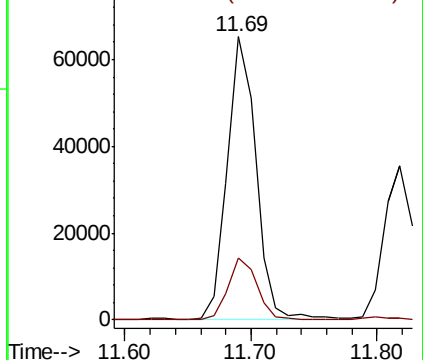
91 100

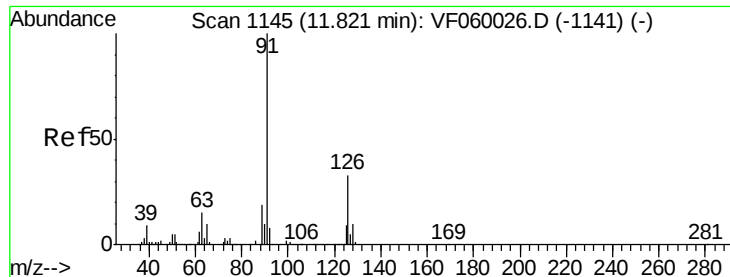
120 22.1 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.61 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 58572

Ion Ratio Lower Upper

91 100

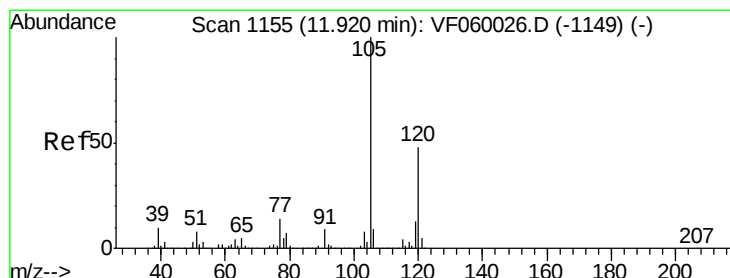
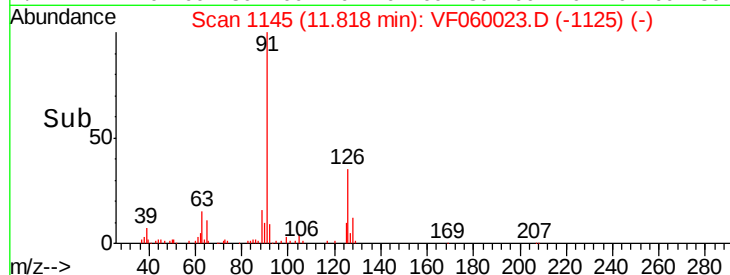
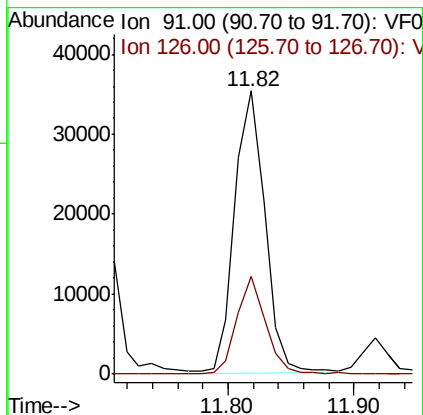
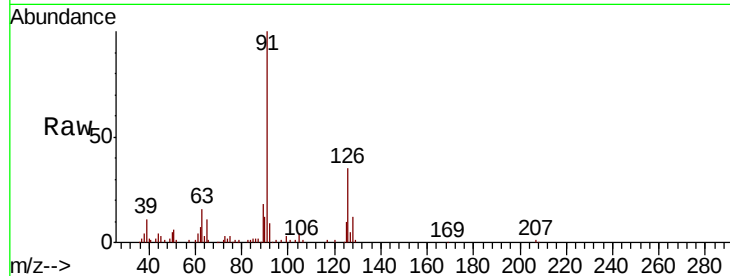
126 34.6 16.6 49.7

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#80

1,3,5-Trimethylbenzene

Concen: 5.40 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF060023.D

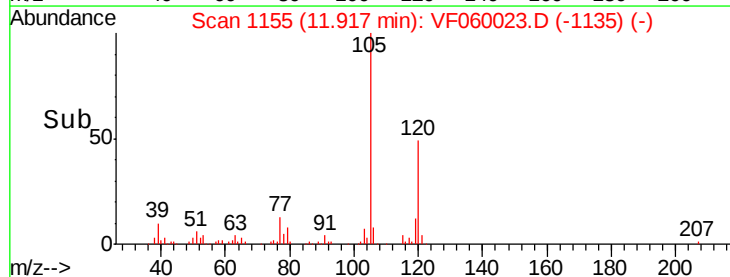
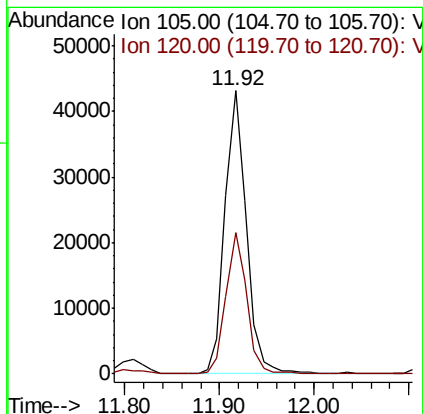
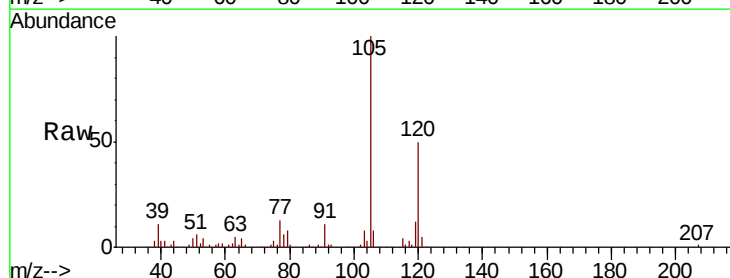
Acq: 21 Aug 2018 16:59

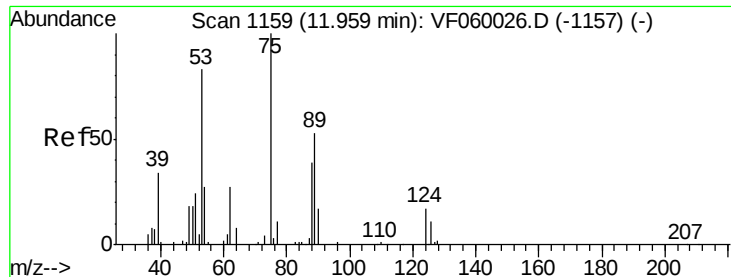
Tgt Ion: 105 Resp: 67807

Ion Ratio Lower Upper

105 100

120 50.1 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 4.28 ug/l m

RT: 11.97 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_F

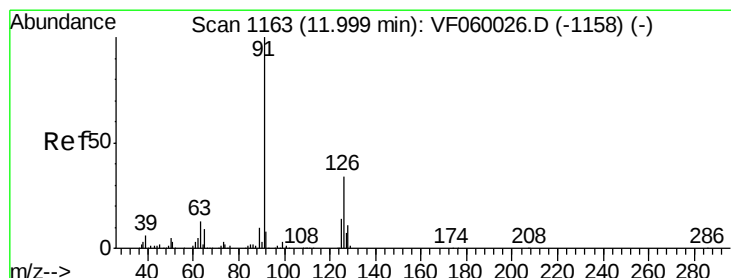
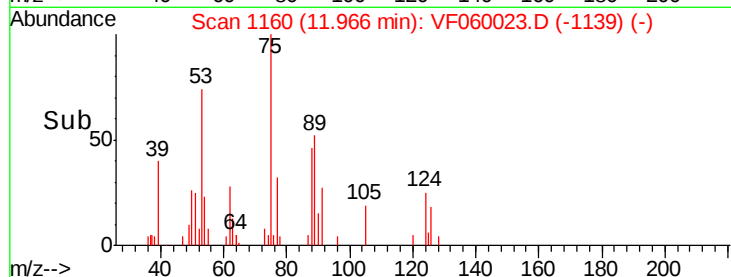
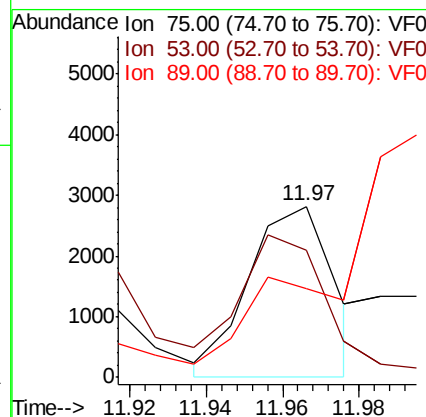
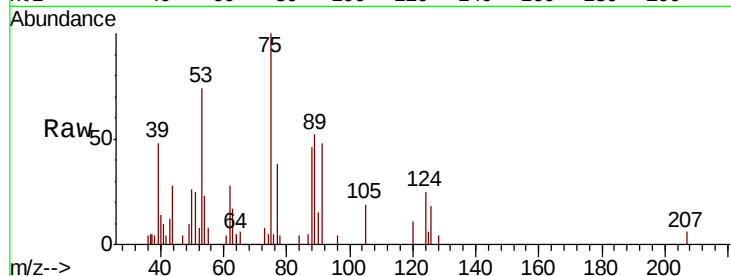
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	4370
Ion	Ratio	Lower	Upper
75	100		
53	74.3	66.2	99.4
89	51.6	42.8	64.2

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#82

4-Chlorotoluene

Concen: 5.51 ug/l

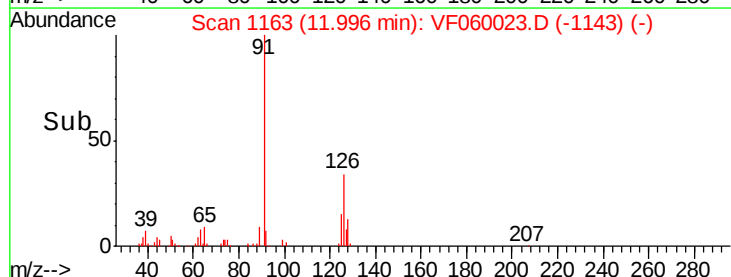
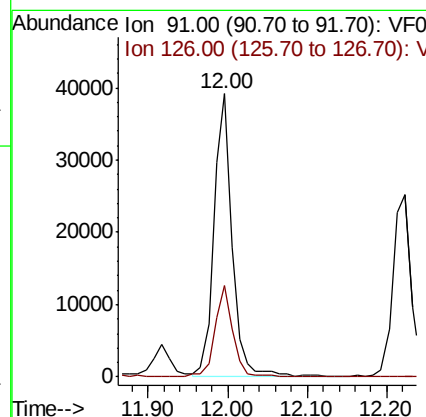
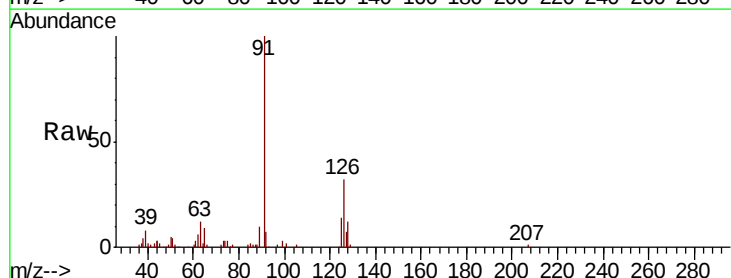
RT: 12.00 min Scan# 1163

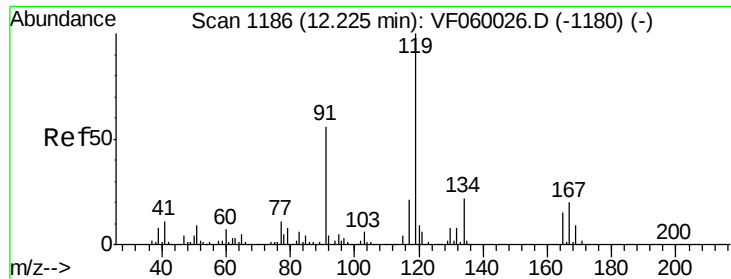
Delta R.T. -0.00 min

Lab File: VF060023.D

Acq: 21 Aug 2018 16:59

Tgt Ion:	91	Resp:	62917
Ion	Ratio	Lower	Upper
91	100		
126	32.1	17.0	50.9





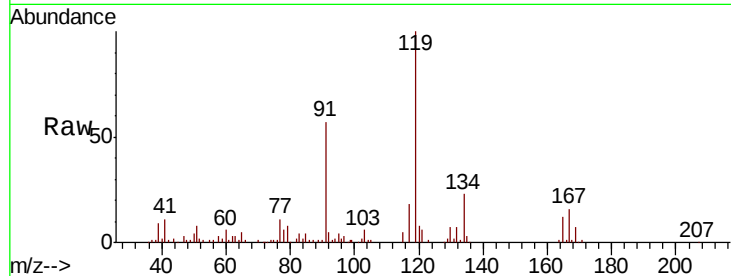
#83
tert-Butylbenzene
Concen: 5.37 ug/l
RT: 12.22 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

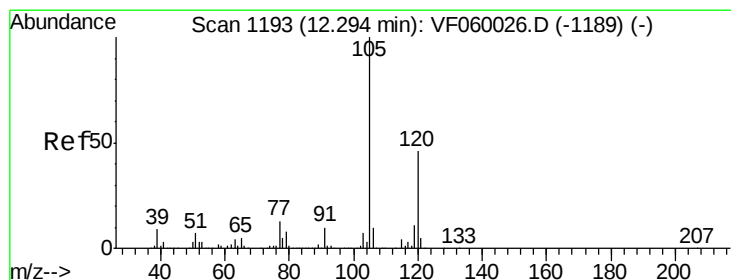
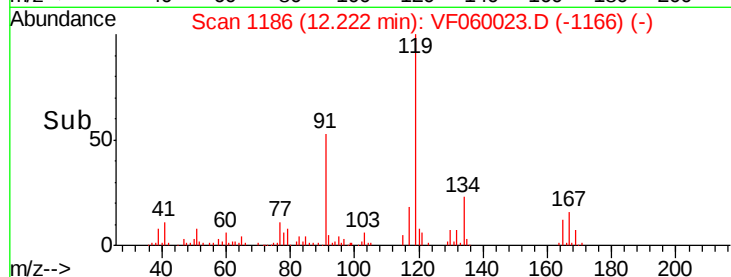
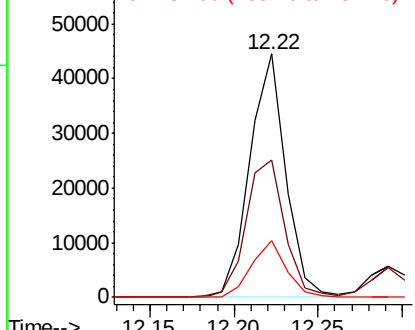
Tot Ion	Ratio	Lower	Upper
119	100		
91	56.6	28.1	84.3
134	23.1	11.1	33.3

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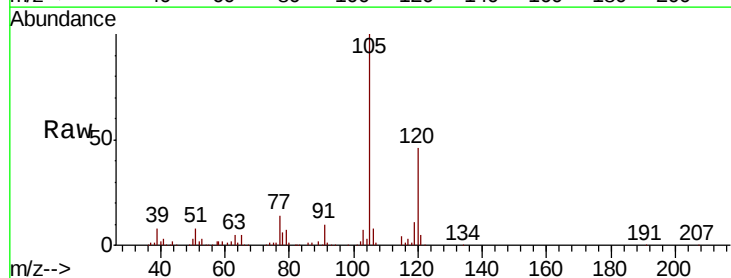


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

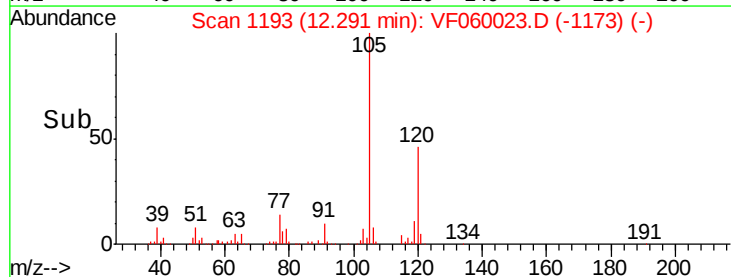
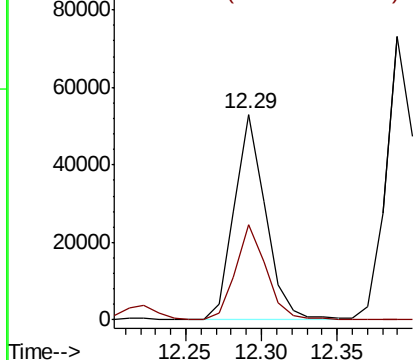


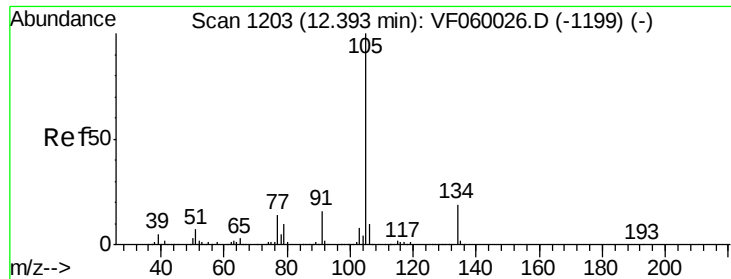
#84
1,2,4-Trimethylbenzene
Concen: 5.73 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.3	69.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





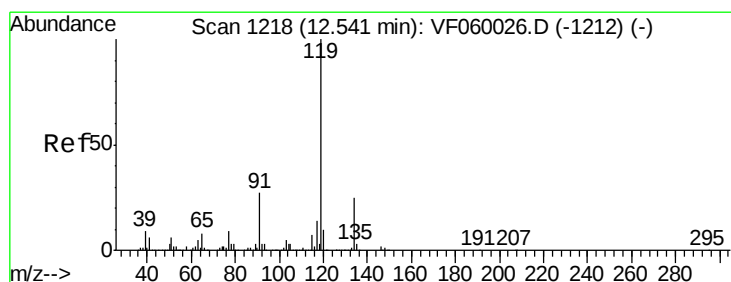
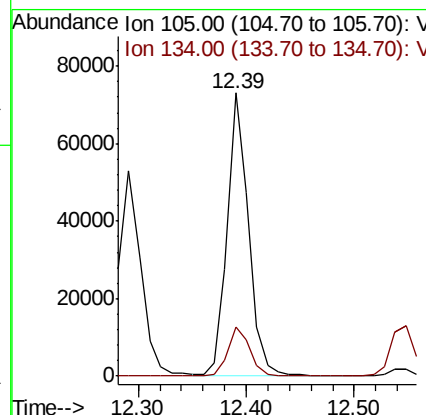
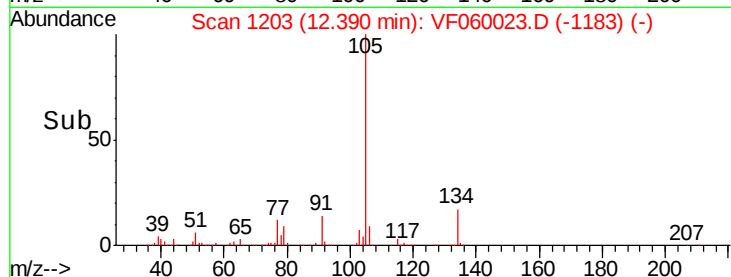
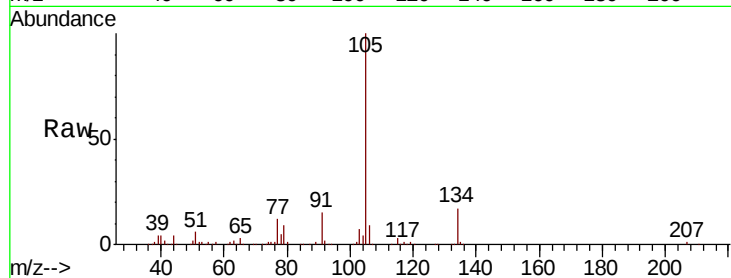
#85
 sec-Butylbenzene
 Concen: 6.12 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
105	100	100251		
134	17.2	9.3	27.9	

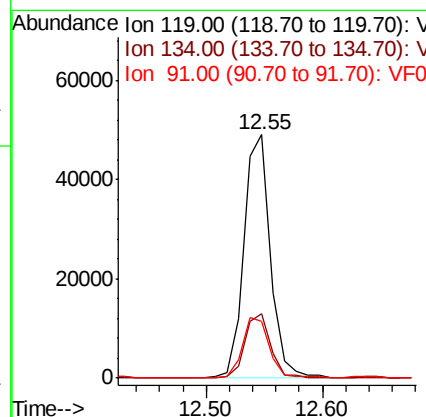
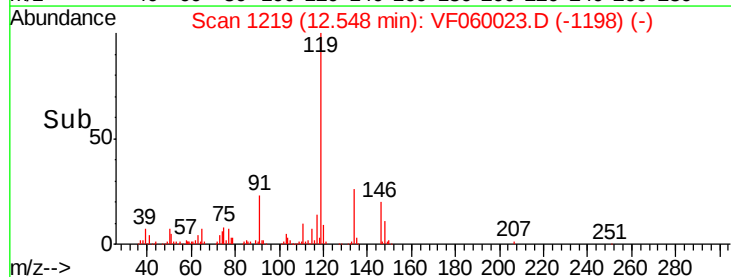
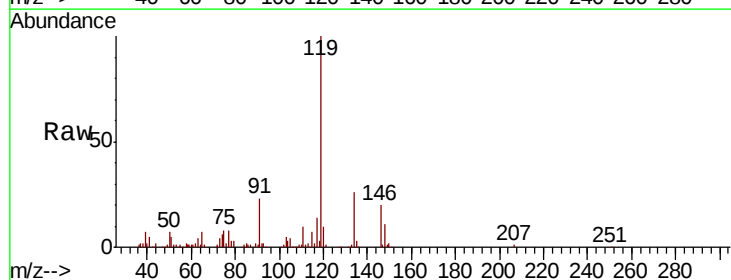
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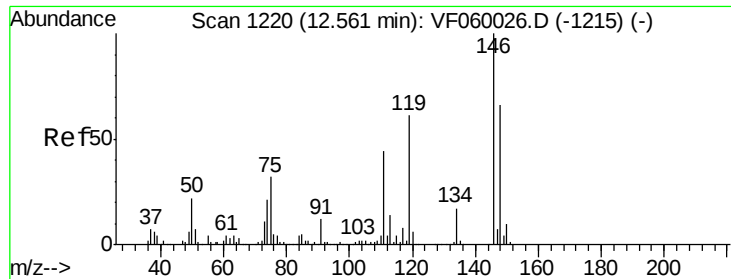
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#86
 p-Isopropyltoluene
 Concen: 5.32 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	77042		
134	26.2	12.4	37.2	
91	23.1	13.5	40.4	





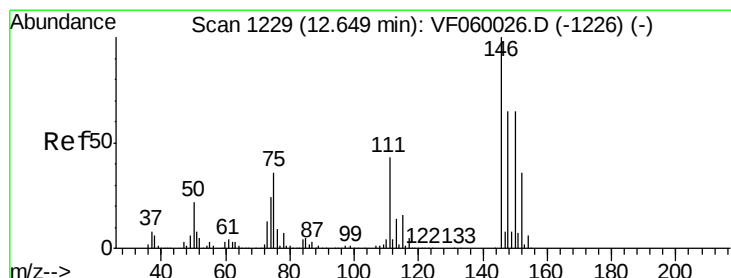
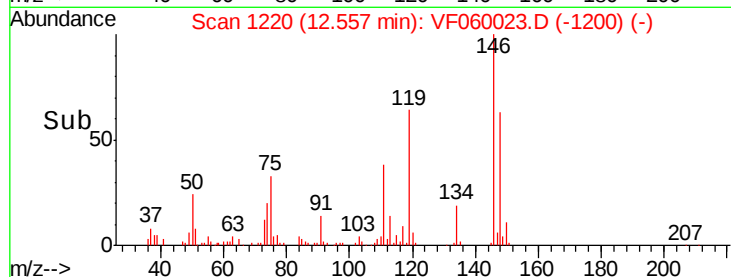
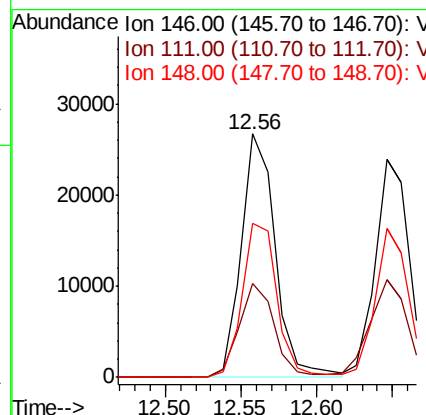
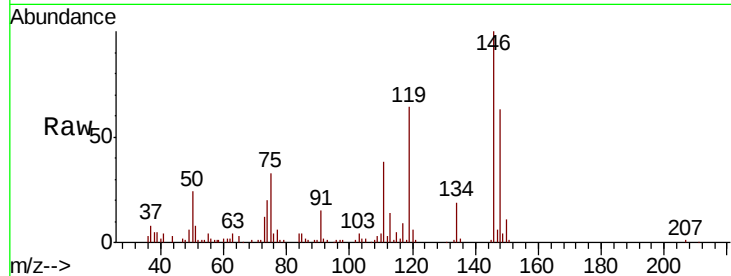
#87
 1,3-Dichlorobenzene
 Concen: 5.62 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	21.9	65.5
148	63.3	32.9	98.7

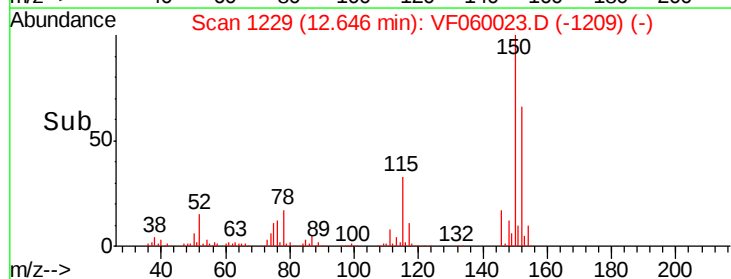
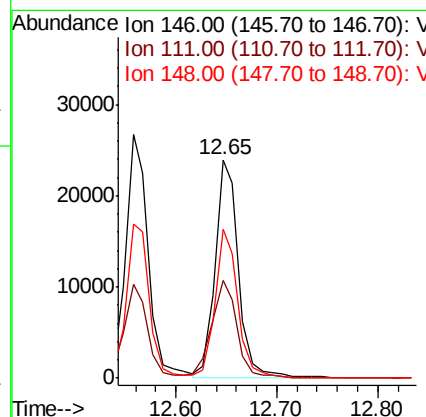
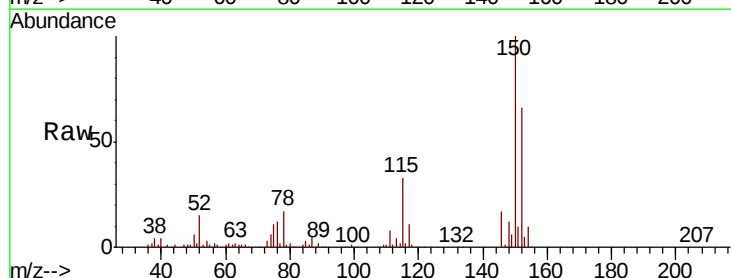
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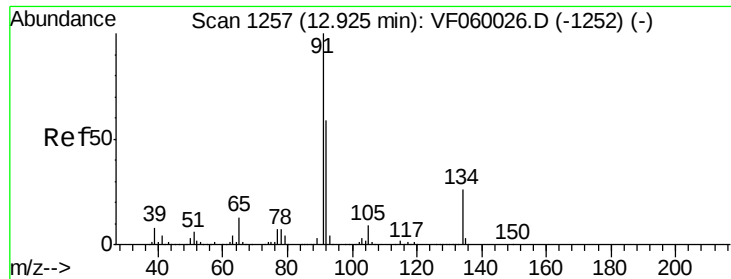
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#88
 1,4-Dichlorobenzene
 Concen: 5.42 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.6	64.8
148	67.9	32.3	96.8





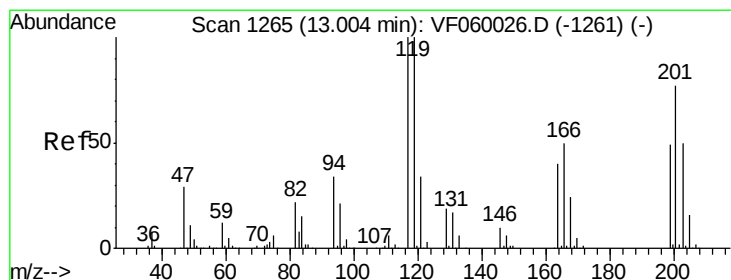
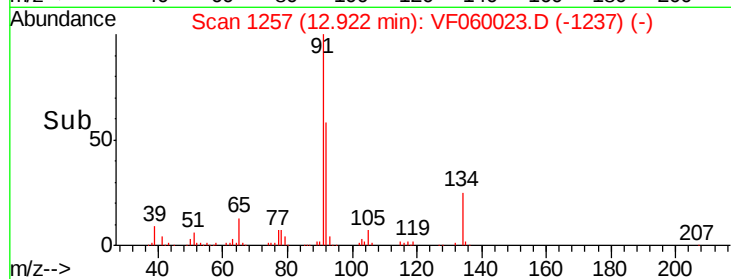
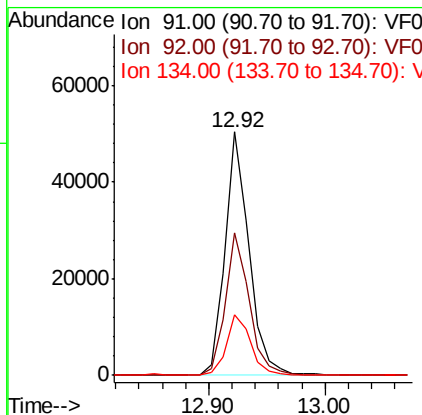
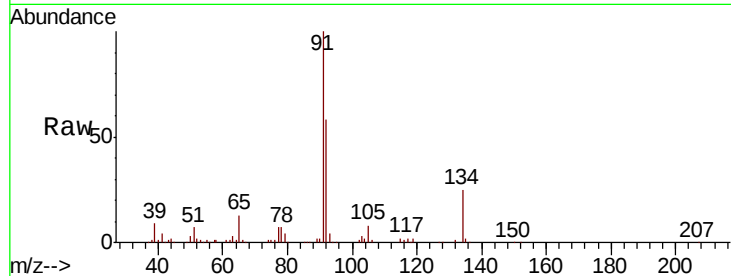
#89
n-Butylbenzene
Concen: 5.15 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.3	87.9
134	24.7	12.8	38.3

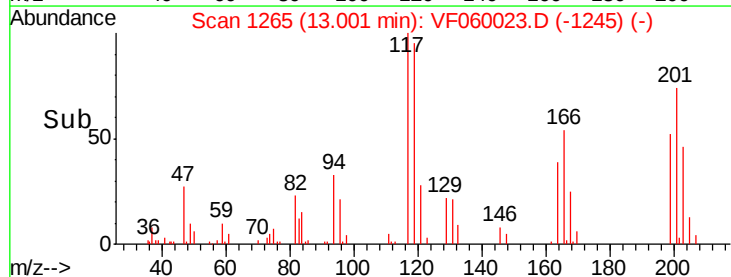
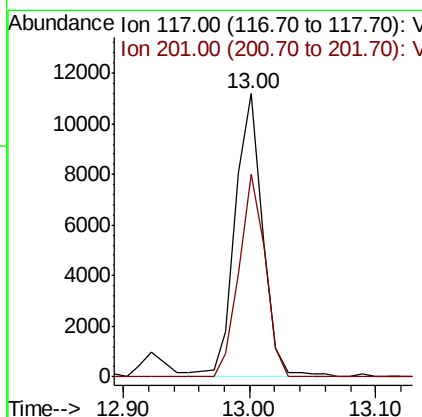
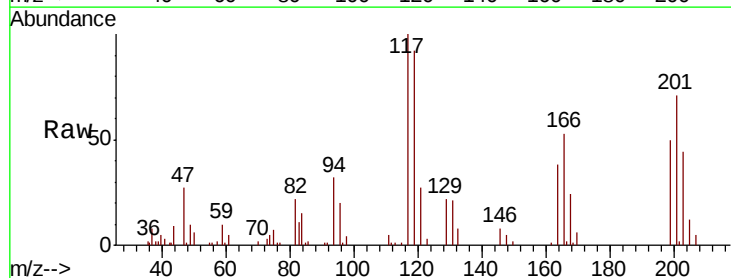
Manual Integrations
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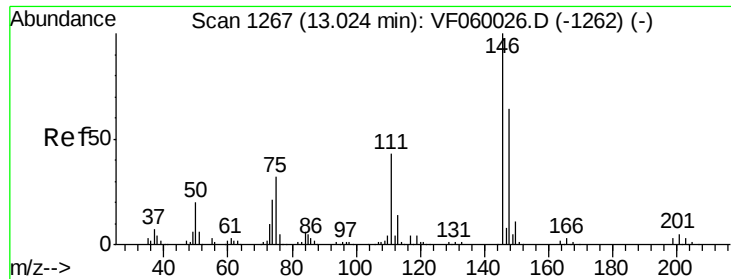
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#90
Hexachloroethane
Concen: 5.21 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	73.9	38.6	115.8





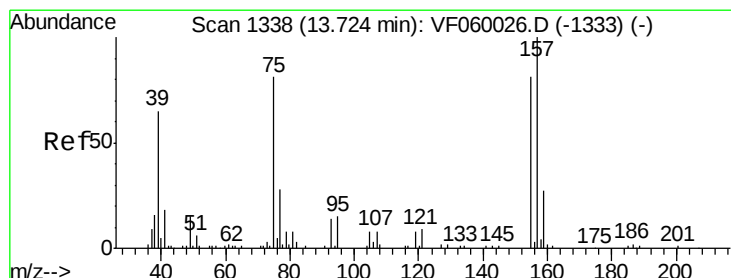
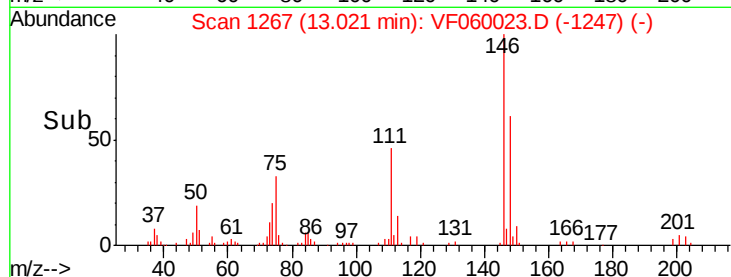
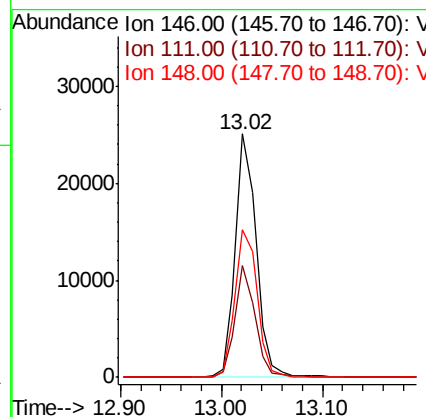
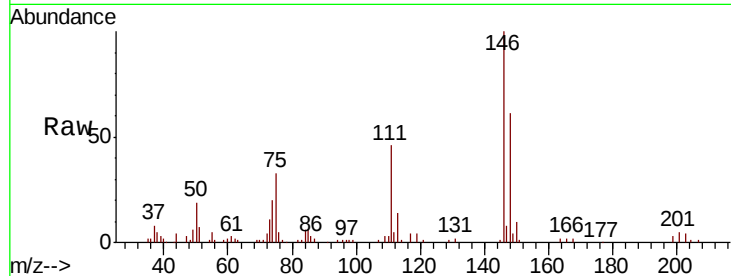
#91
 1,2-Dichlorobenzene
 Concen: 5.14 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.7	21.6	64.6
148	60.8	32.3	96.8

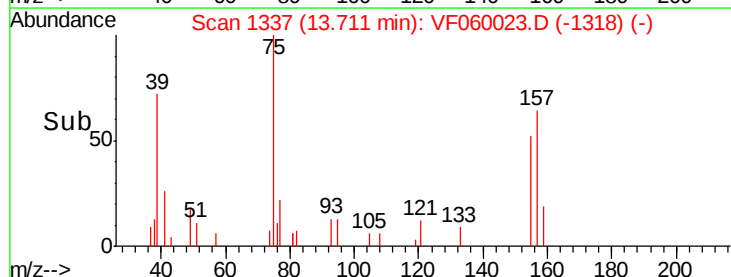
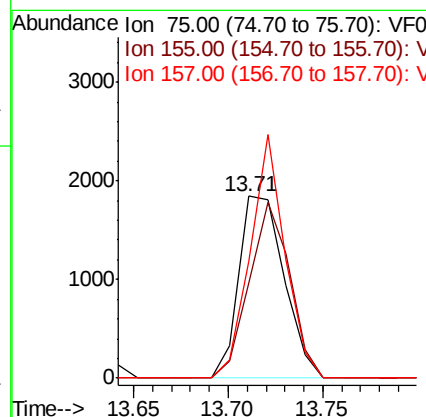
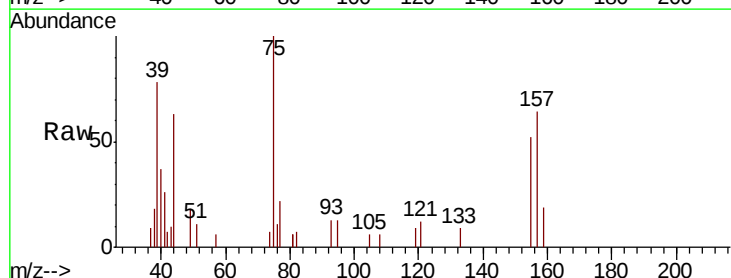
Manual Integrations
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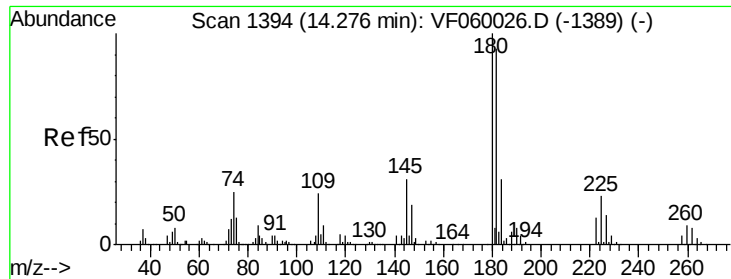
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.14 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	52.3	49.8	149.3
157	64.1	61.6	184.7





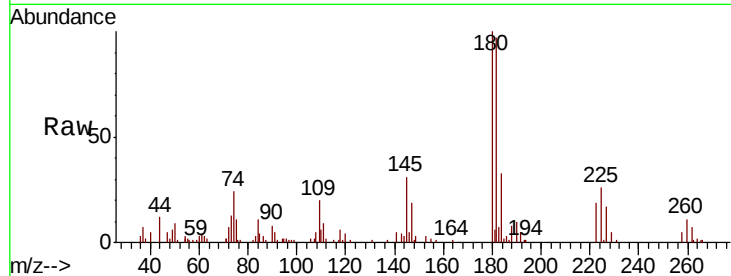
#93
 1,2,4-Trichlorobenzene
 Concen: 4.70 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	46.8	140.3
145	30.6	15.4	46.4

Manual Integrations
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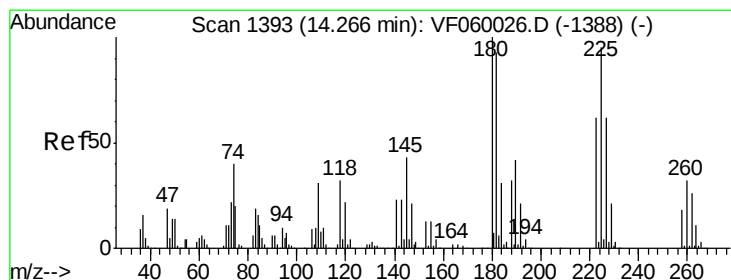
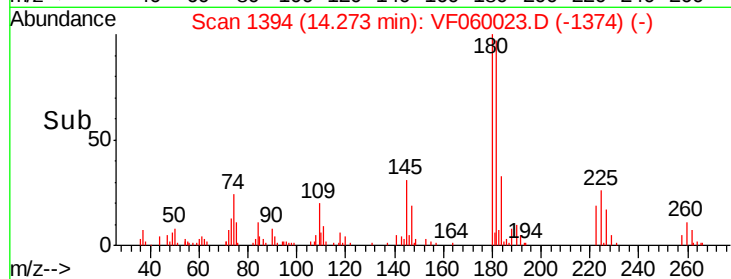
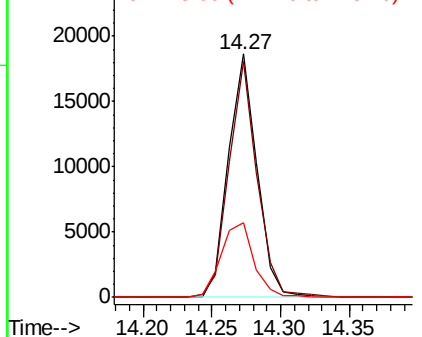


Abundance

Ion 180.00 (179.70 to 180.70): V

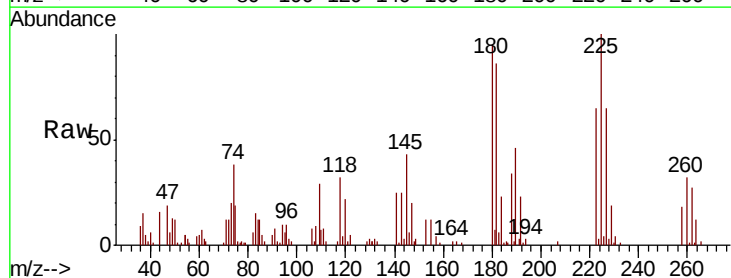
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 4.23 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF060023.D
 Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.7	32.6	97.8
227	65.0	33.0	98.9

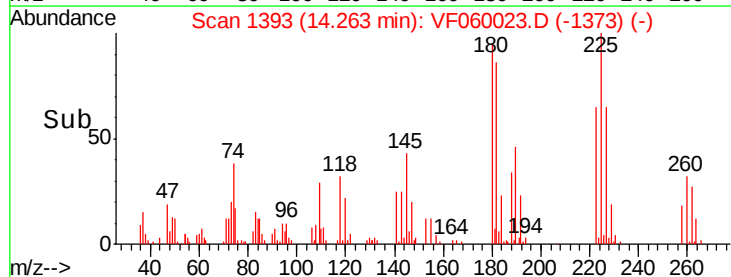
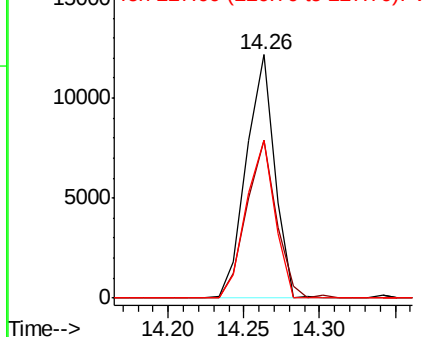


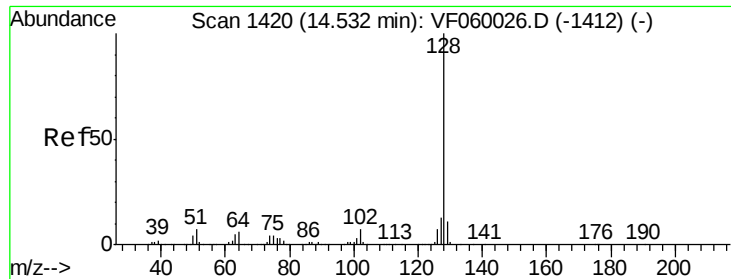
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





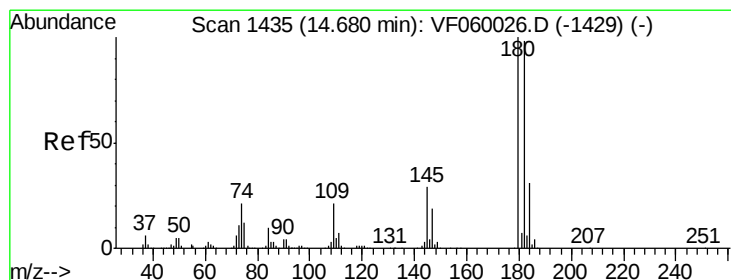
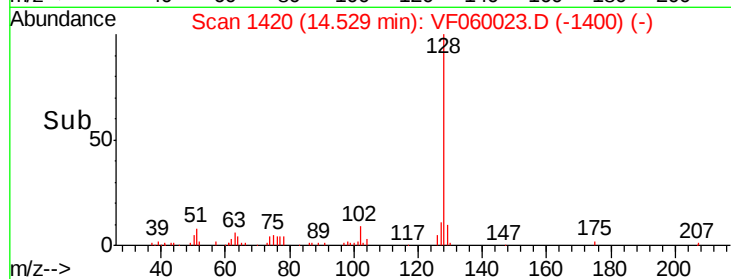
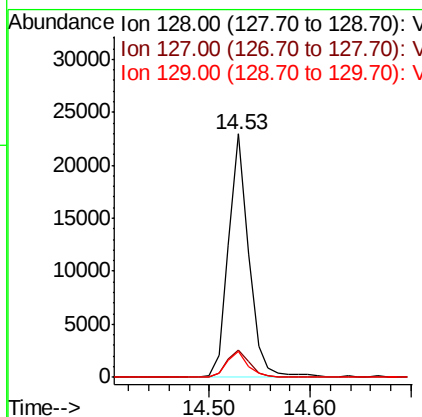
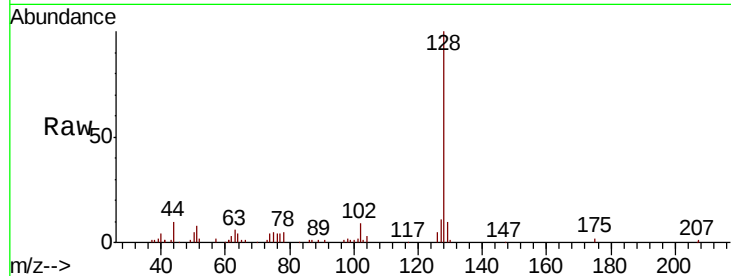
#95
Naphthalene
Concen: 3.91 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.4	15.6
129	10.5	8.5	12.7

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#96
1,2,3-Trichlorobenzene
Concen: 4.36 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VF060023.D
Acq: 21 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.1	49.0	147.2
145	30.6	14.4	43.2

