

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060884.D
 Acq On : 29 Nov 2018 23:30
 Operator : VA/AP
 Sample : J6139-03MSD
 Misc : 7.28g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

Quant Time: Nov 30 06:02:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	171194	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	293997	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.79	117	282740	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.56	152	149826	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	125304	62.13	ug/l	-0.04
Spiked Amount			Recovery	=	124.26%	
35) Dibromofluoromethane	4.11	113	121684	52.17	ug/l	-0.04
Spiked Amount			Recovery	=	104.34%	
50) Toluene-d8	7.56	98	361798	52.66	ug/l	-0.04
Spiked Amount			Recovery	=	105.32%	
62) 4-Bromofluorobenzene	11.41	95	164165	52.57	ug/l	-0.03
Spiked Amount			Recovery	=	105.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	131492	51.370	ug/l	98
3) Chloromethane	1.11	50	86214	51.760	ug/l	95
4) Vinyl Chloride	1.15	62	174656	112.415	ug/l	95
5) Bromomethane	1.33	94	57946	52.892	ug/l	96
6) Chloroethane	1.38	64	37241	55.451	ug/l	95
7) Trichlorofluoromethane	1.49	101	185196	55.555	ug/l	92
8) Diethyl Ether	1.63	74	28926	60.343	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.84	101	92163	54.687	ug/l	97
10) Methyl Iodide	1.91	142	118154	46.125	ug/l	95
11) Tert butyl alcohol	2.57	59	25206	304.897	ug/l	97
12) 1,1-Dichloroethene	1.80	96	75555	55.739	ug/l	91
13) Acrolein	2.00	56	14116	180.218	ug/l	88
14) Allyl chloride	2.09	41	93459	55.316	ug/l	96
15) Acrylonitrile	2.94	53	63650	343.422	ug/l	100
16) Acetone	2.24	43	154448	415.300	ug/l #	93
17) Carbon Disulfide	1.84	76	197456	54.328	ug/l	99
18) Methyl Acetate	2.35	43	50103	81.338	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	184728	60.506	ug/l	97
20) Methylene Chloride	2.25	84	52827	38.720	ug/l	95
21) trans-1,2-Dichloroethene	2.31	96	162288	124.184	ug/l	96
22) Diisopropyl ether	2.80	45	277961	60.441	ug/l	95
23) Vinyl Acetate	3.19	43	570005	271.146	ug/l	98
24) 1,1-Dichloroethane	2.87	63	157629	57.609	ug/l	99
25) 2-Butanone	4.34	43	210821	327.744	ug/l	99
26) 2,2-Dichloropropane	3.60	77	87440	49.293	ug/l	96
27) cis-1,2-Dichloroethene	3.48	96	738192	346.970	ug/l	96
28) Bromochloromethane	3.72	49	76806	58.490	ug/l	89
29) Tetrahydrofuran	4.08	42	88456	324.414	ug/l	98
30) Chloroform	3.87	83	243746	57.881	ug/l	98
31) Cyclohexane	3.69	56	155673	54.821	ug/l	99
32) 1,1,1-Trichloroethane	4.10	97	147302	50.437	ug/l	97
36) 1,1-Dichloropropene	4.28	75	172138	52.788	ug/l	96
37) Ethyl Acetate	4.11	43	80363	60.644	ug/l	94
38) Carbon Tetrachloride	4.00	117	140375	48.738	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	167557	49.031	ug/l	97
40) Benzene	4.64	78	376869	52.314	ug/l	99
41) Methacrylonitrile	4.76	41	47046	70.132	ug/l #	87
42) 1,2-Dichloroethane	4.95	62	143130	54.421	ug/l	95
43) Isopropyl Acetate	6.97	43	102965	63.722	ug/l #	95
44) Trichloroethene	5.51	130	716848	304.332	ug/l	98
45) 1,2-Dichloropropane	6.24	63	103791	55.474	ug/l	99
46) Dibromomethane	6.10	93	75918	59.815	ug/l	97
47) Bromodichloromethane	6.39	83	180618	53.580	ug/l	100
48) Methyl methacrylate	6.72	41	70396	58.688	ug/l	99
49) 1,4-Dioxane	6.71	88	9660	1100.389	ug/l #	90
51) 4-Methyl-2-Pentanone	8.26	43	375540	307.316	ug/l	98
52) Toluene	7.64	92	258101	51.006	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	147243	53.699	ug/l	96
54) cis-1,3-Dichloropropene	7.31	75	178398	52.554	ug/l	98
55) 1,1,2-Trichloroethane	8.49	97	79851	54.155	ug/l	96
56) Ethyl methacrylate	8.62	69	99514	60.755	ug/l	97
57) 1,3-Dichloropropane	8.86	76	148924	57.730	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.30	63	43870	261.848	ug/l	93
59) 2-Hexanone	9.50	43	280247	326.892	ug/l	98
60) Dibromochloromethane	8.72	129	123720	56.315	ug/l	99
61) 1,2-Dibromoethane	9.00	107	92020	57.770	ug/l	98
64) Tetrachloroethene	8.16	164	143294	66.353	ug/l	100
65) Chlorobenzene	9.81	112	287712	52.308	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	124203	52.526	ug/l	91
67) Ethyl Benzene	9.91	91	515579	50.349	ug/l	100
68) m/p-Xylenes	10.14	106	355202	96.445	ug/l	97
69) o-Xylene	10.71	106	206188	50.770	ug/l	91
70) Styrene	10.79	104	284864	50.600	ug/l	97
71) Bromoform	10.78	173	65196	57.081	ug/l	95
73) Isopropylbenzene	11.13	105	610063	51.525	ug/l	96
74) N-amyl acetate	11.37	43	159815	58.454	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	118948	61.042	ug/l	100
76) 1,2,3-Trichloropropane	11.80	75	88094	62.197	ug/l	94
77) Bromobenzene	11.50	156	131596	50.696	ug/l	89
78) n-propylbenzene	11.60	91	676476	48.788	ug/l	95
79) 2-Chlorotoluene	11.72	91	415781	52.297	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	470847	48.986	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	50773	73.163	ug/l	93
82) 4-Chlorotoluene	11.91	91	414300	49.517	ug/l	96
83) tert-Butylbenzene	12.13	119	469827	47.986	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	457923	47.735	ug/l	97
85) sec-Butylbenzene	12.31	105	658691	49.144	ug/l	99
86) p-Isopropyltoluene	12.46	119	536213	47.717	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	238957	48.395	ug/l	97
88) 1,4-Dichlorobenzene	12.57	146	248034	51.547	ug/l	98
89) n-Butylbenzene	12.84	91	525342	46.234	ug/l	98
90) Hexachloroethane	12.92	117	138669	51.246	ug/l	84
91) 1,2-Dichlorobenzene	12.94	146	235089	50.277	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	22527	59.794	ug/l	77

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

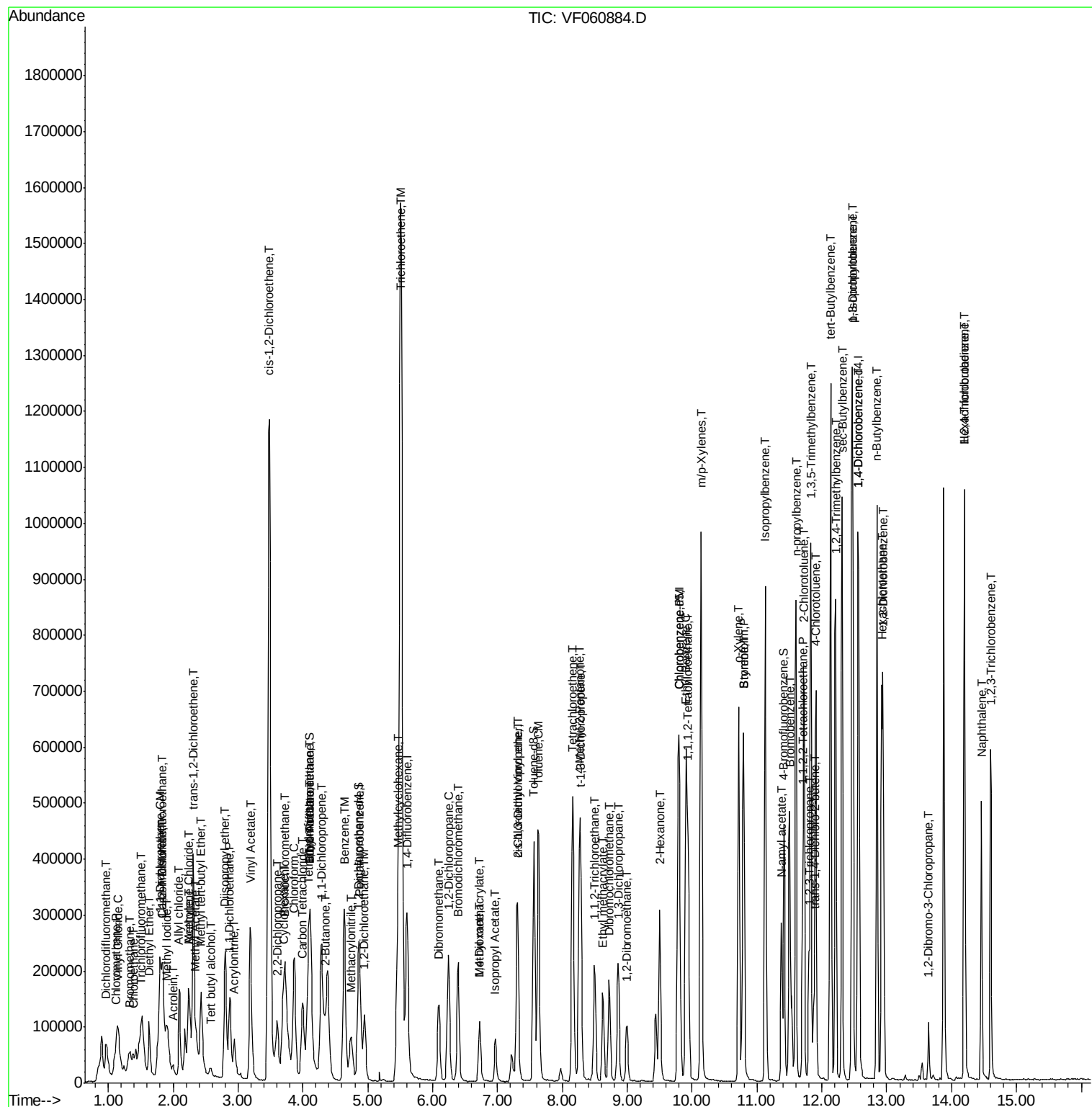
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	160684	49.182	ug/l	98
94) Hexachlorobutadiene	14.20	225	92309	42.384	ug/l	97
95) Naphthalene	14.46	128	367400	58.535	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	160124	52.784	ug/l	97

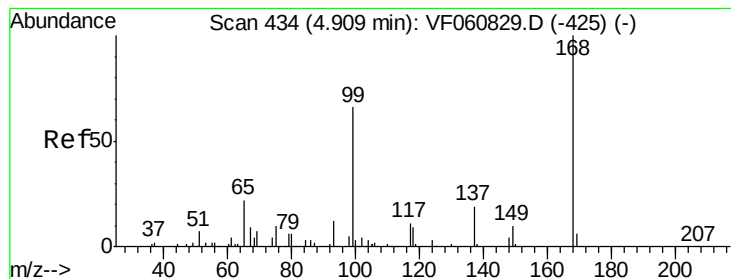
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

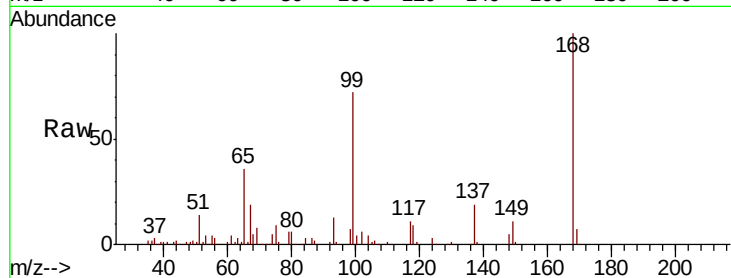
S49-0483MSD

Tot Ion:168 Resp: 171194

Ion Ratio Lower Upper

168 100

99 71.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

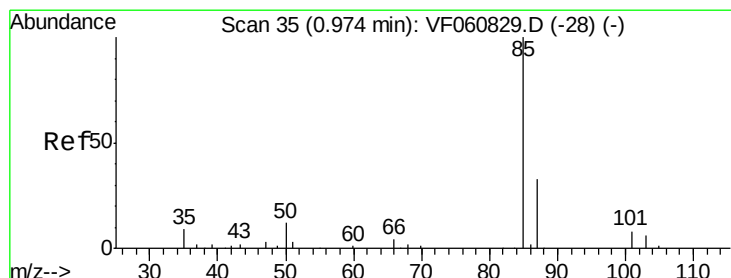
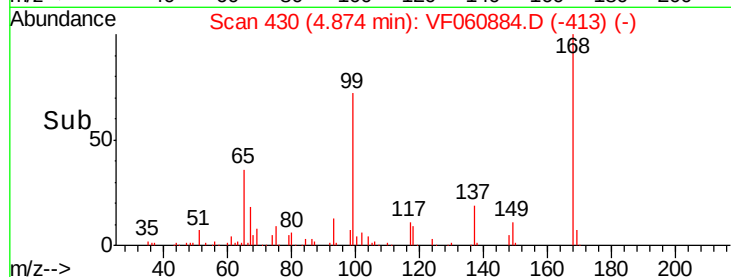
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 51.370 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060884.D

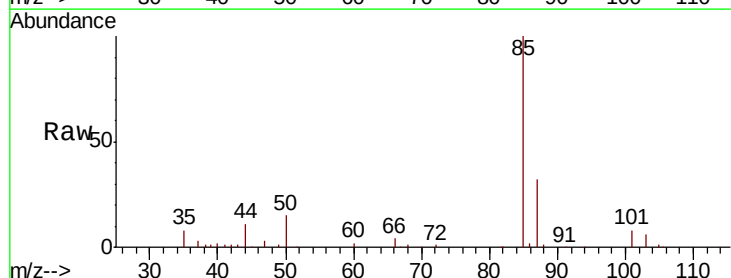
Acq: 29 Nov 2018 23:30

Tgt Ion: 85 Resp: 131492

Ion Ratio Lower Upper

85 100

87 32.2 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

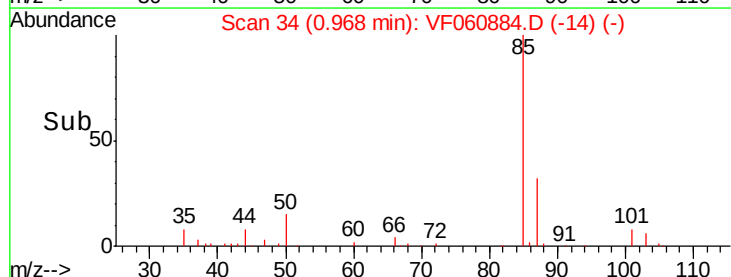
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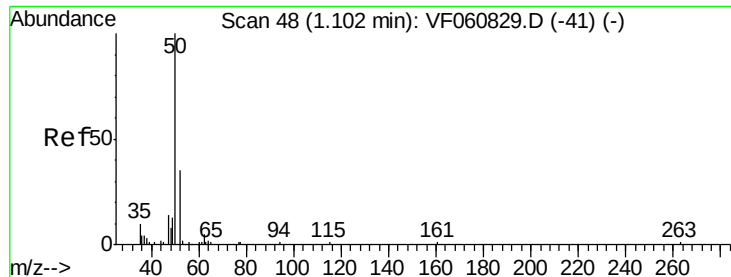
20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 51.760 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

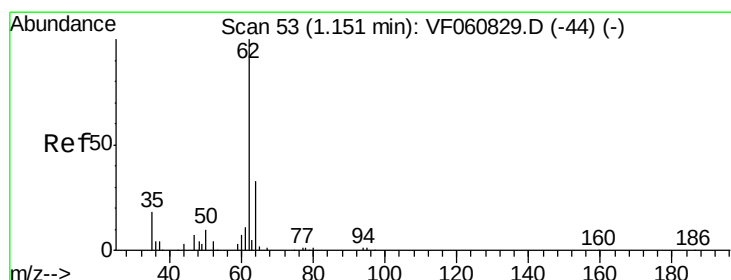
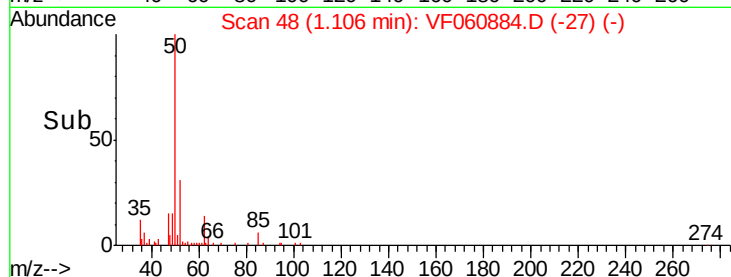
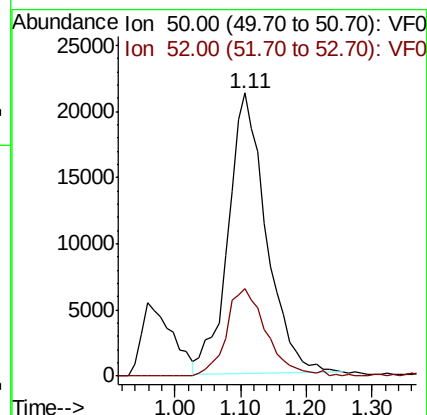
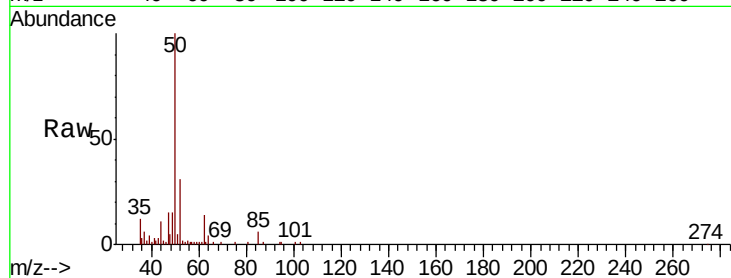
S49-0483MSD

Tot Ion: 50 Resp: 86214

Ion Ratio Lower Upper

50 100

52 31.1 27.0 40.4



#4

Vinyl Chloride

Concen: 112.415 ug/l

RT: 1.15 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060884.D

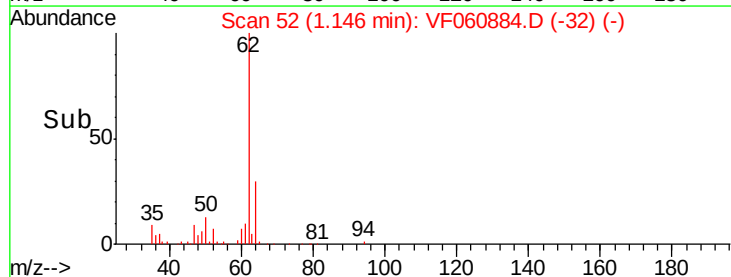
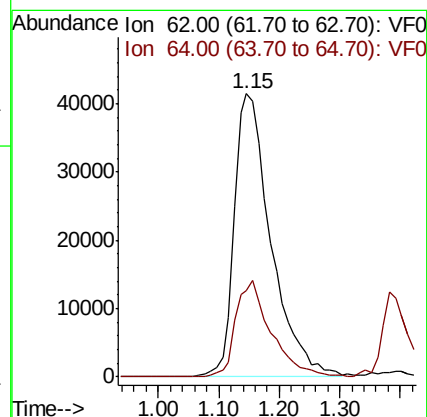
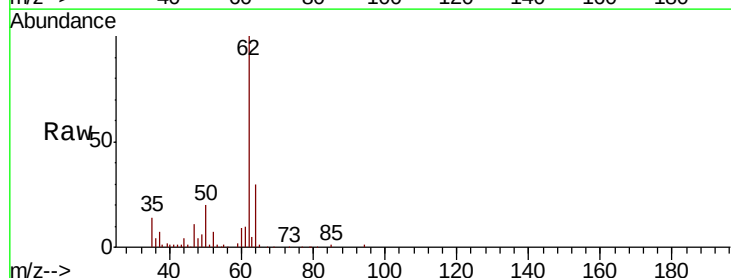
Acq: 29 Nov 2018 23:30

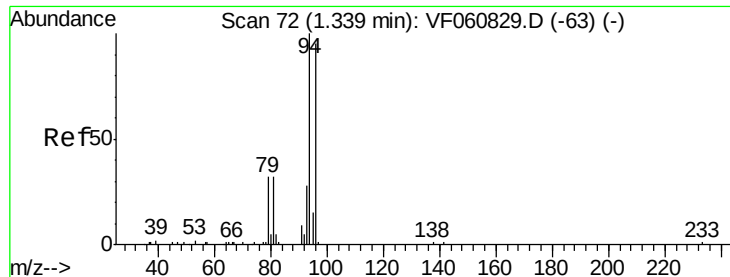
Tgt Ion: 62 Resp: 174656

Ion Ratio Lower Upper

62 100

64 30.3 26.4 39.6





#5

Bromomethane

Concen: 52.892 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

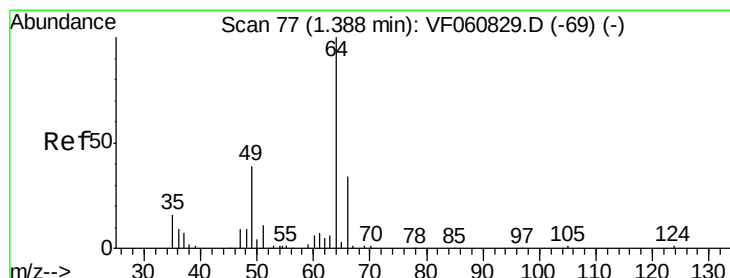
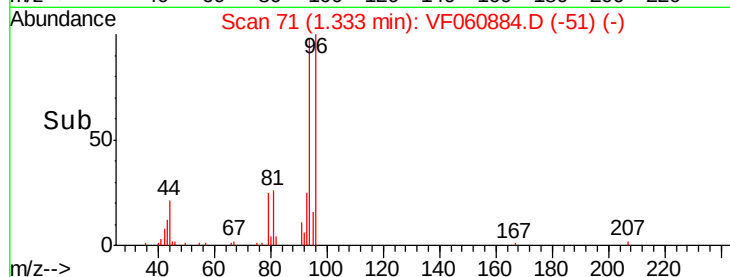
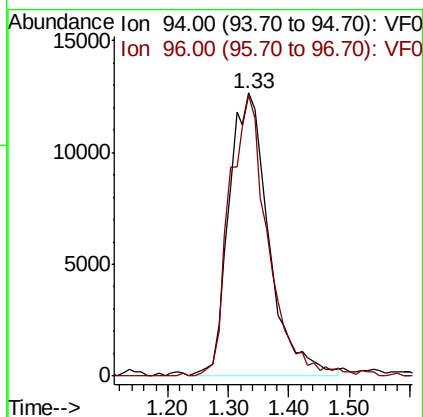
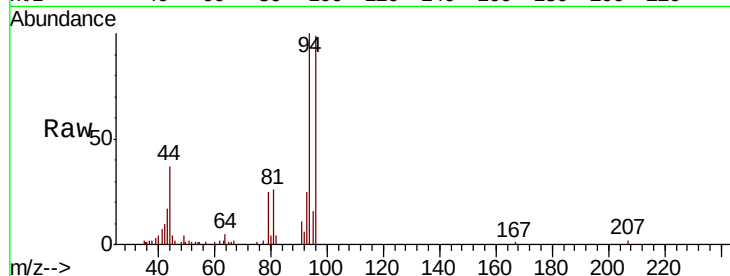
S49-0483MSD

Tot Ion: 94 Resp: 57946

Ion Ratio Lower Upper

94 100

96 99.3 75.9 113.9



#6

Chloroethane

Concen: 55.451 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060884.D

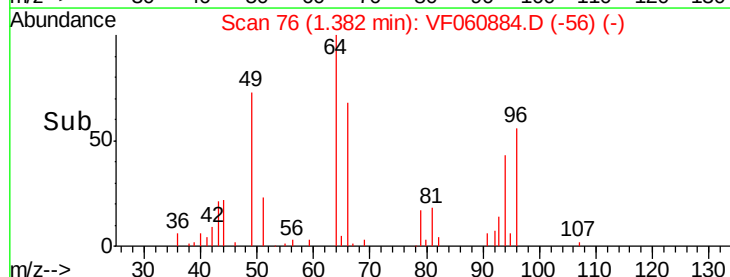
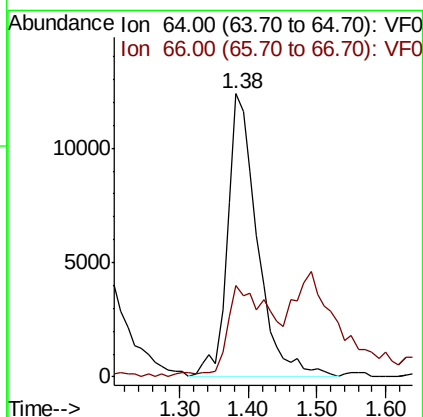
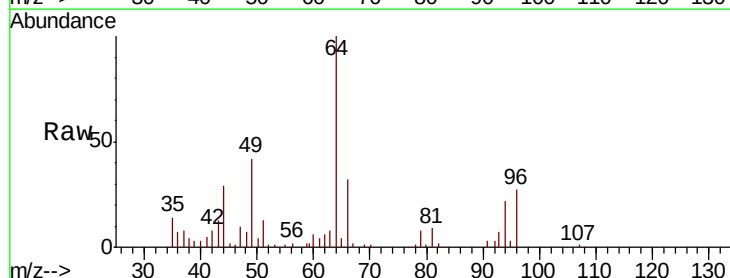
Acq: 29 Nov 2018 23:30

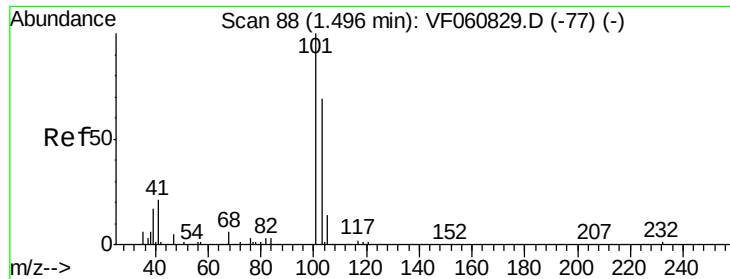
Tgt Ion: 64 Resp: 37241

Ion Ratio Lower Upper

64 100

66 32.4 28.1 42.1





#7

Trichlorofluoromethane

Concen: 55.555 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.01 min

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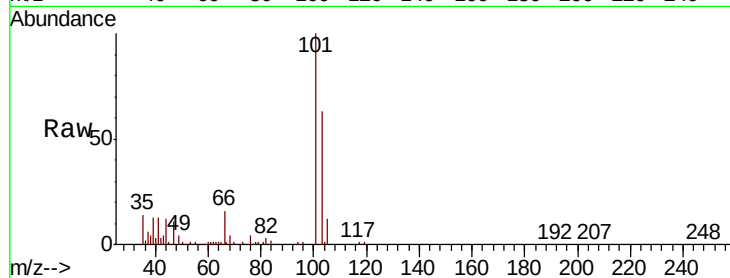
S49-0483MSD

Tot Ion:101 Resp: 185196

Ion Ratio Lower Upper

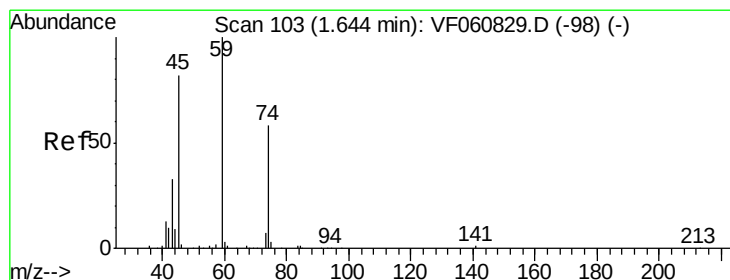
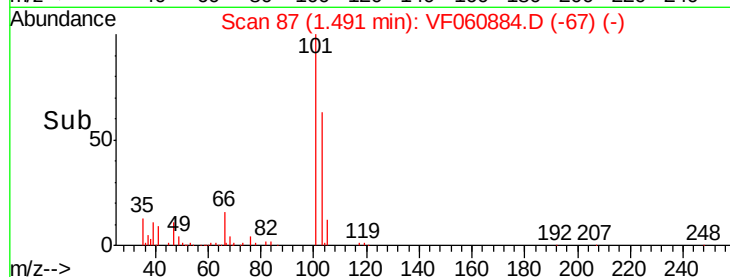
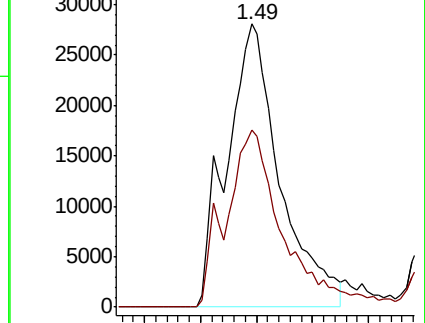
101 100

103 62.8 55.4 83.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 60.343 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060884.D

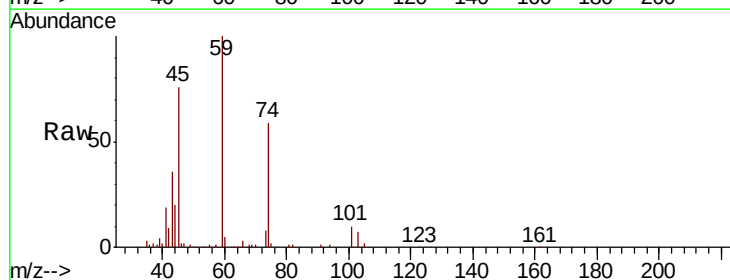
Acq: 29 Nov 2018 23:30

Tgt Ion: 74 Resp: 28926

Ion Ratio Lower Upper

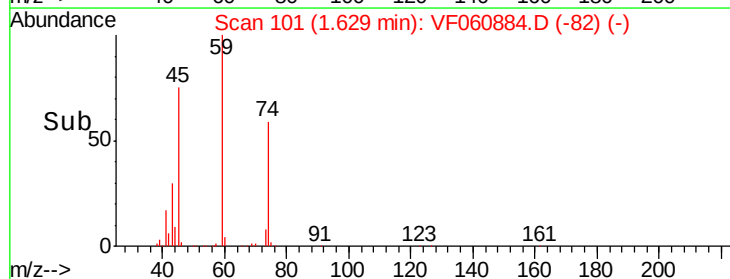
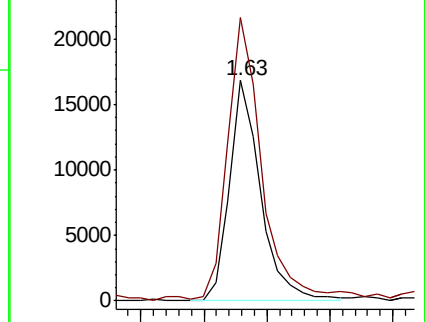
74 100

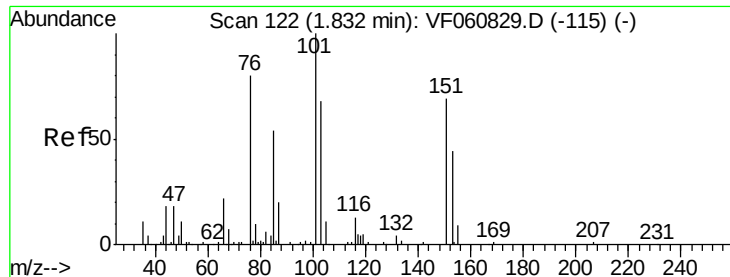
45 128.3 71.0 212.8



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: 54.687 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.00 min

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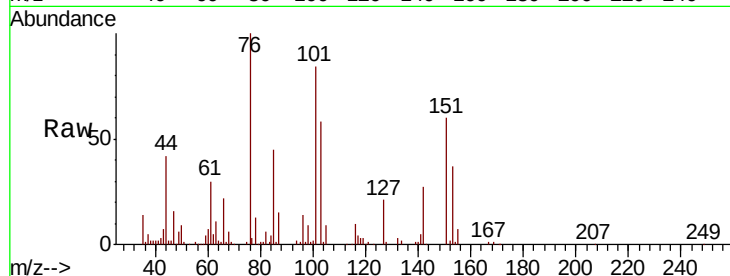
Tot Ion:101 Resp: 92163

Ion Ratio Lower Upper

101 100

85 54.0 42.8 64.2

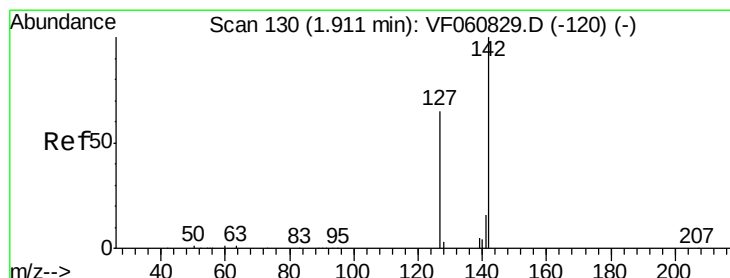
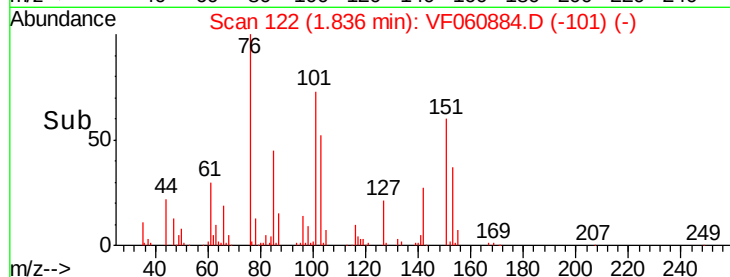
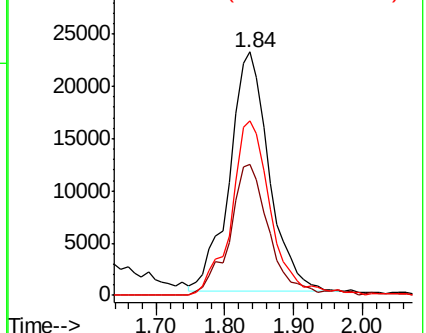
151 71.7 54.4 81.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 46.125 ug/l

RT: 1.91 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

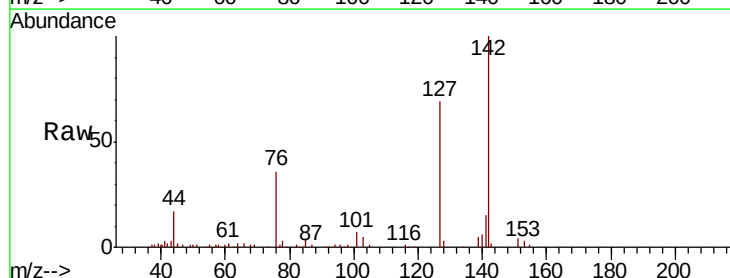
Tgt Ion:142 Resp: 118154

Ion Ratio Lower Upper

142 100

127 69.3 51.9 77.9

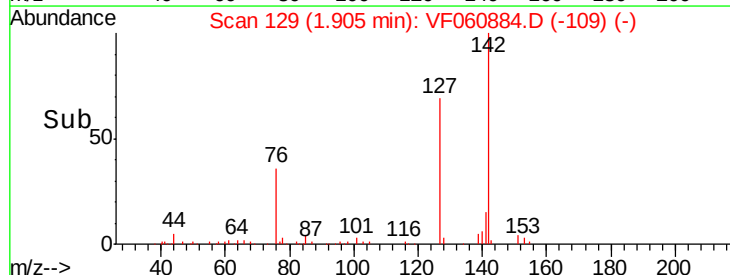
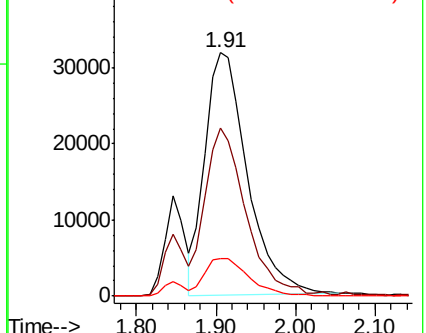
141 15.3 12.7 19.1

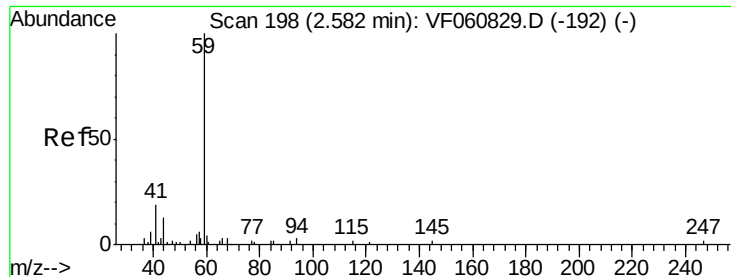


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

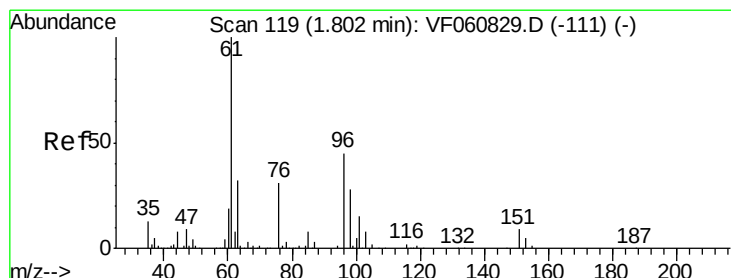
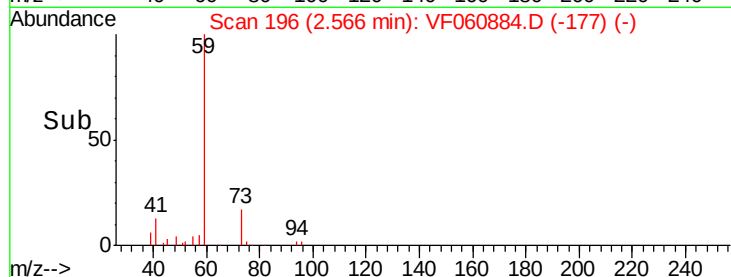
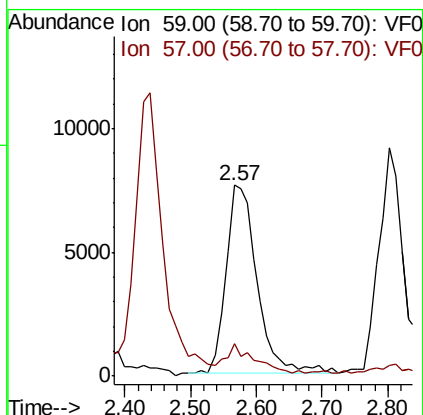
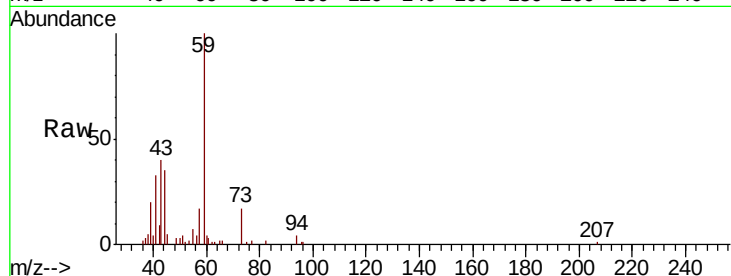




#11
Tert butyl alcohol
Concen: 304.897 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

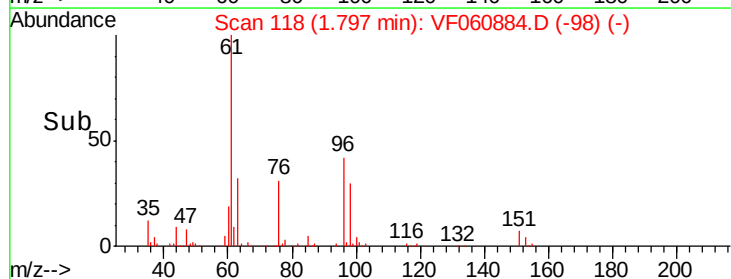
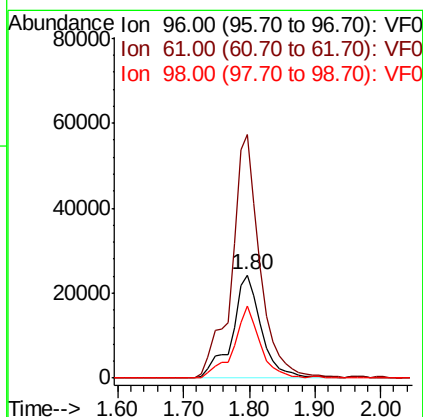
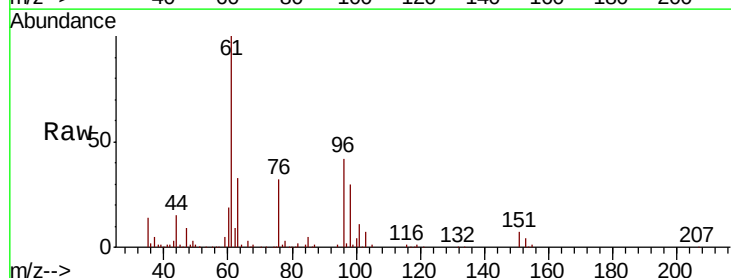
Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

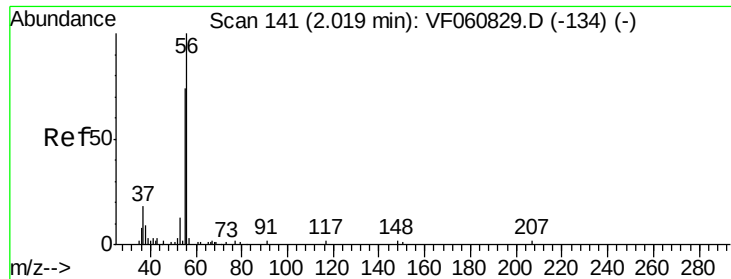
Tot Ion: 59 Resp: 25206
Ion Ratio Lower Upper
59 100
57 17.3 12.7 19.1



#12
1,1-Dichloroethene
Concen: 55.739 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion: 96 Resp: 75555
Ion Ratio Lower Upper
96 100
61 235.4 177.3 265.9
98 69.7 49.6 74.4

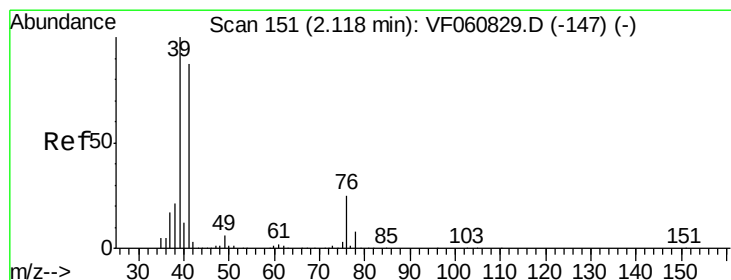
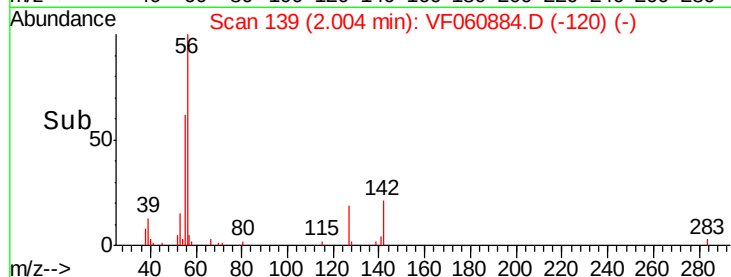
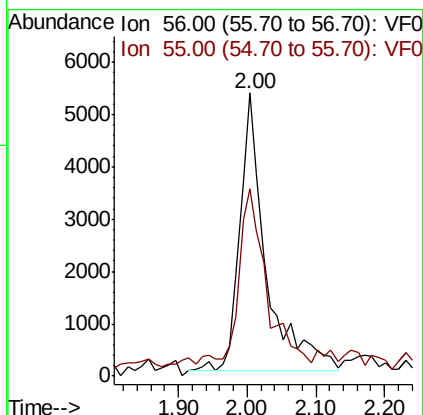
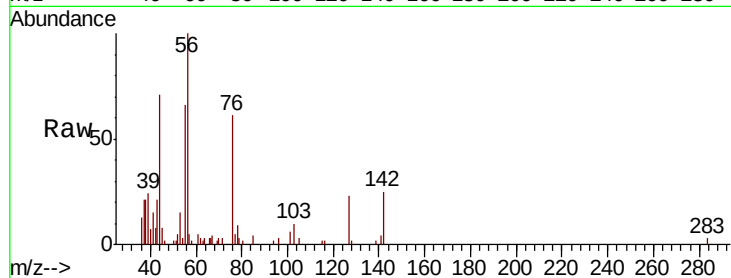




#13
 Acrolein
 Concen: 180.218 ug/l
 RT: 2.00 min Scan# 139
 Delta R.T. -0.02 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

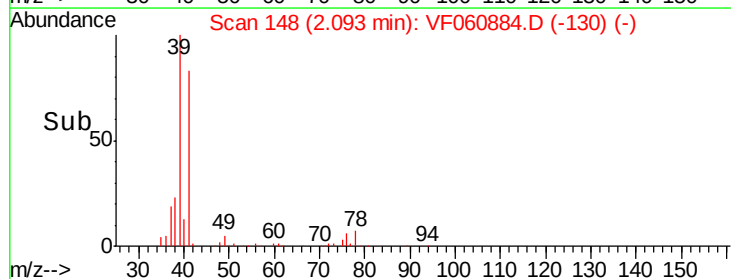
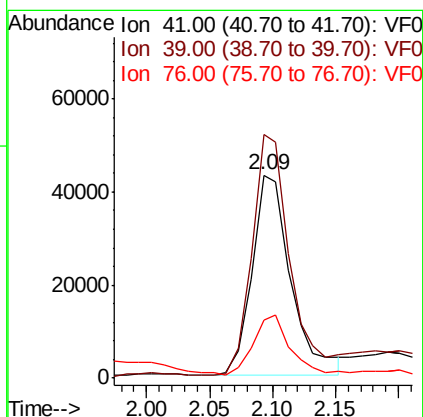
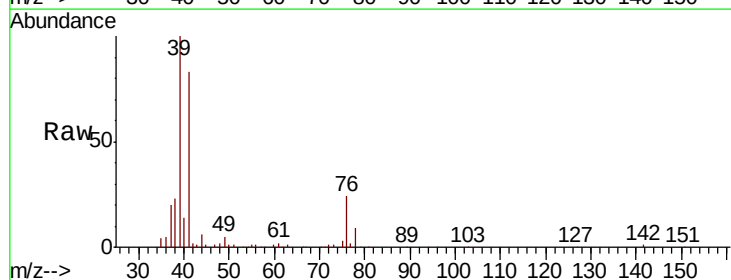
Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

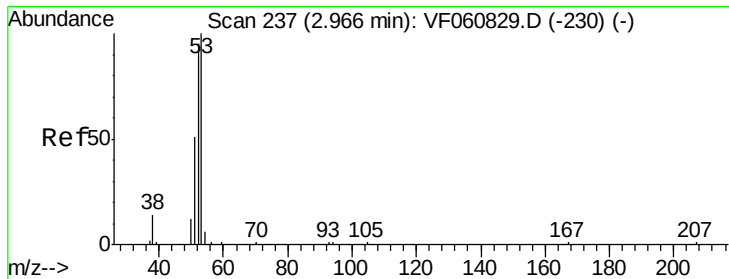
Tot Ion: 56 Resp: 14116
 Ion Ratio Lower Upper
 56 100
 55 66.1 61.2 91.8



#14
 Allyl chloride
 Concen: 55.316 ug/l
 RT: 2.09 min Scan# 148
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion: 41 Resp: 93459
 Ion Ratio Lower Upper
 41 100
 39 119.8 91.7 137.5
 76 28.2 23.5 35.3





#15

Acrylonitrile

Concen: 343.422 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

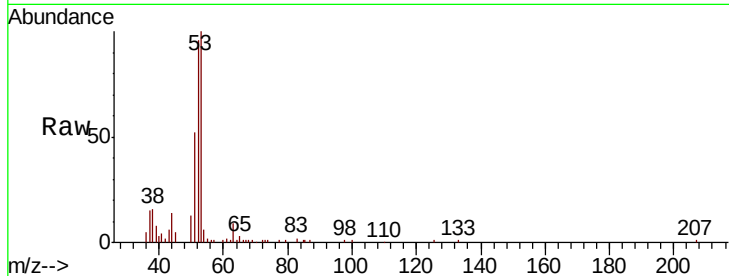
Tot Ion: 53 Resp: 63650

Ion Ratio Lower Upper

53 100

52 95.8 76.5 114.7

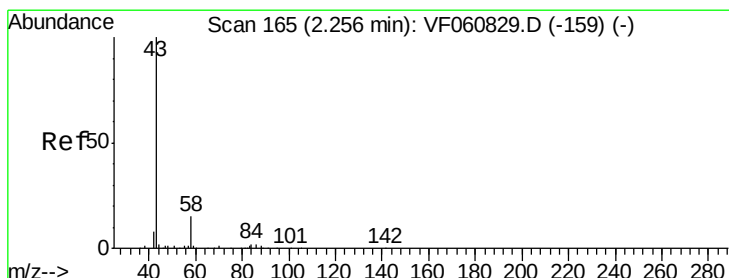
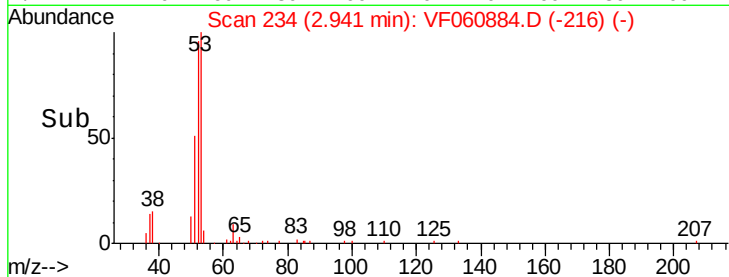
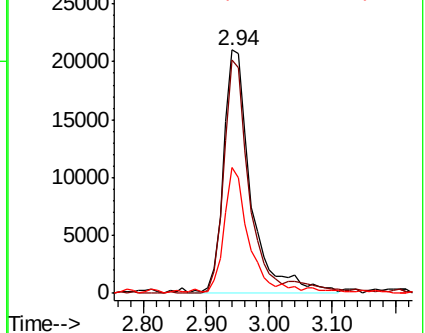
51 51.6 40.7 61.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 415.300 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060884.D

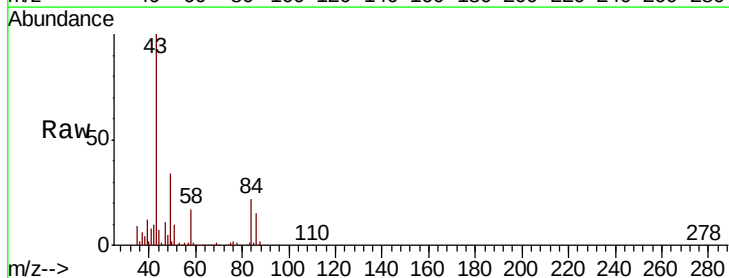
Acq: 29 Nov 2018 23:30

Tgt Ion: 43 Resp: 154448

Ion Ratio Lower Upper

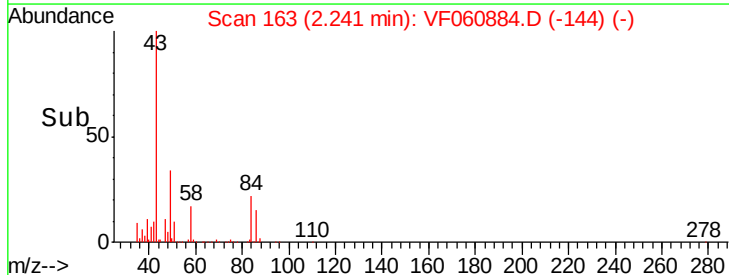
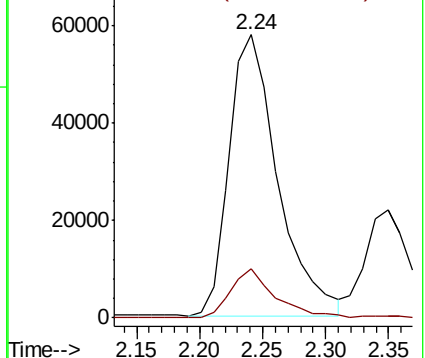
43 100

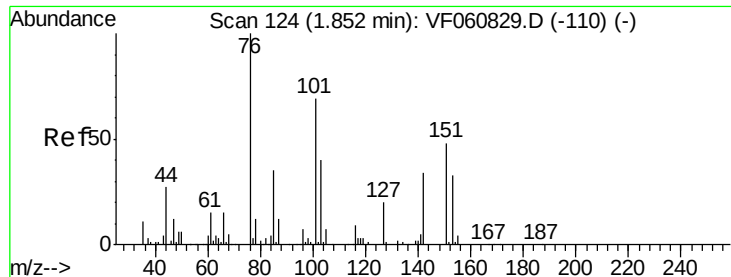
58 17.2 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 54.328 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.02 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

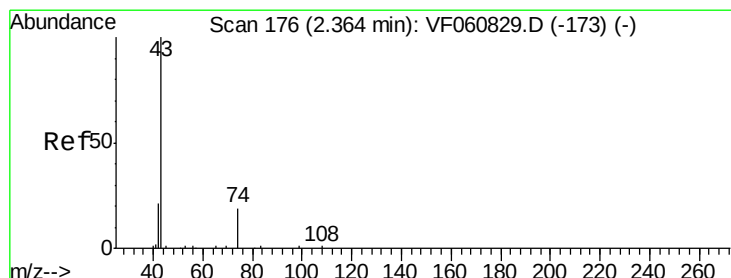
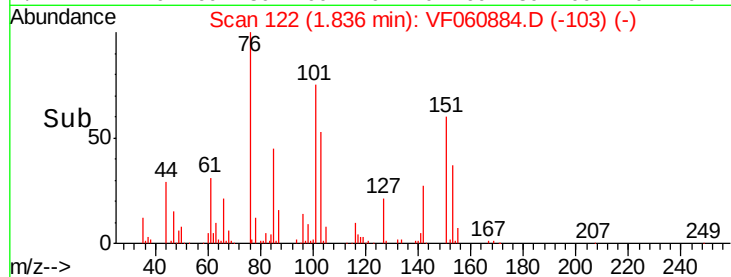
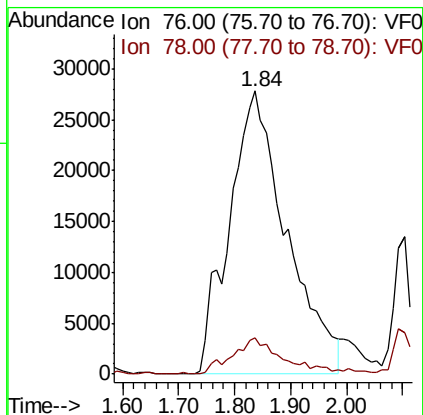
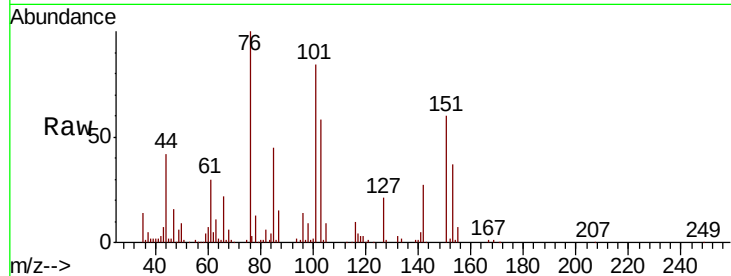
S49-0483MSD

Tot Ion: 76 Resp: 197456

Ion Ratio Lower Upper

76 100

78 12.9 10.2 15.2



#18

Methyl Acetate

Concen: 81.338 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF060884.D

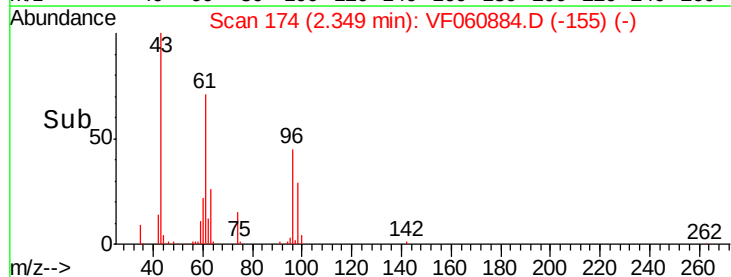
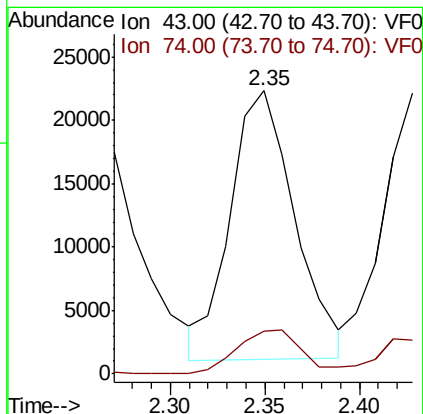
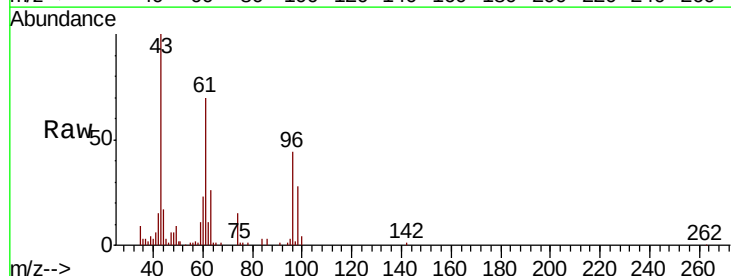
Acq: 29 Nov 2018 23:30

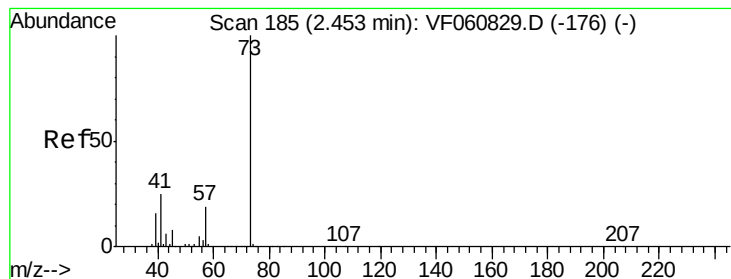
Tgt Ion: 43 Resp: 50103

Ion Ratio Lower Upper

43 100

74 15.2 13.3 19.9



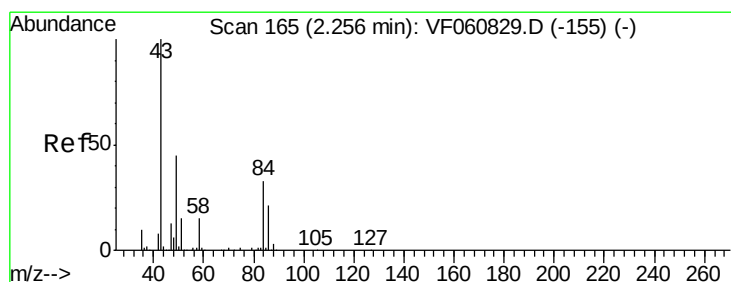
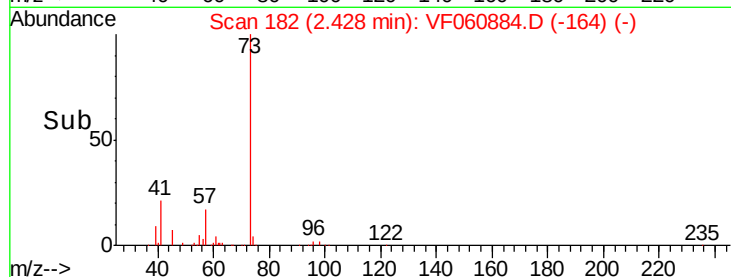
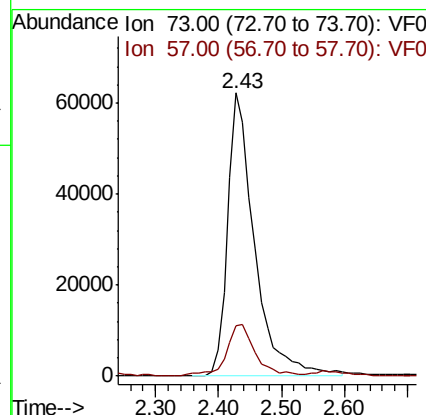
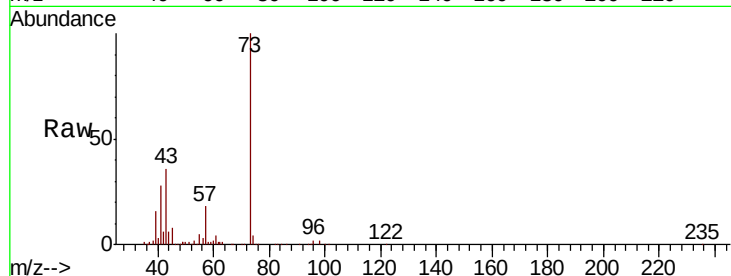


#19

Methyl tert-butyl Ether
 Concen: 60.506 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

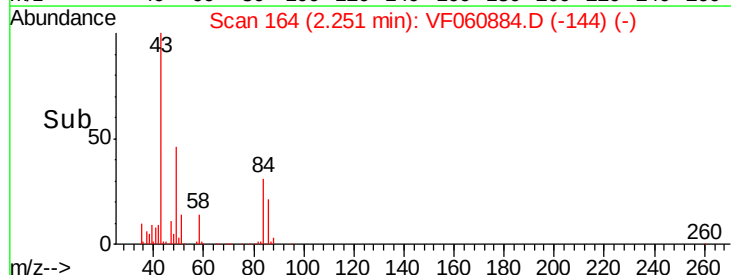
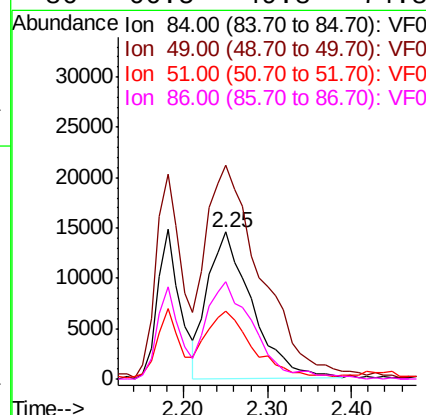
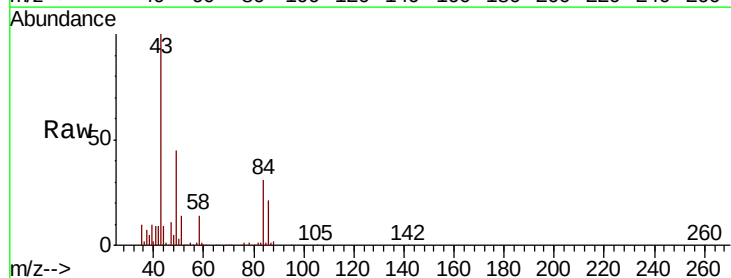
Tot Ion: 73 Resp: 184728
 Ion Ratio Lower Upper
 73 100
 57 17.8 15.3 22.9

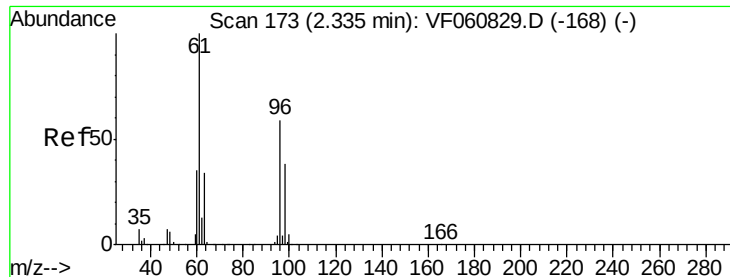


#20

Methylene Chloride
 Concen: 38.720 ug/l
 RT: 2.25 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion: 84 Resp: 52827
 Ion Ratio Lower Upper
 84 100
 49 145.3 111.3 166.9
 51 46.5 38.0 57.0
 86 66.5 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 124.184 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

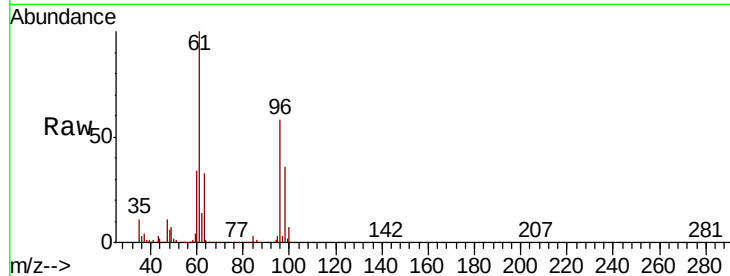
Tot Ion: 96 Resp: 162288

Ion Ratio Lower Upper

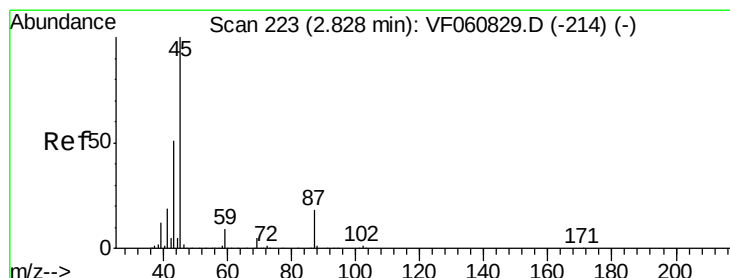
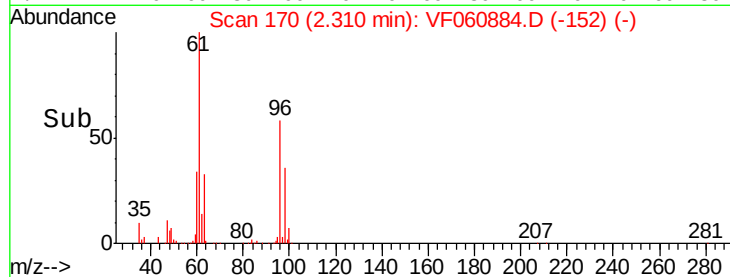
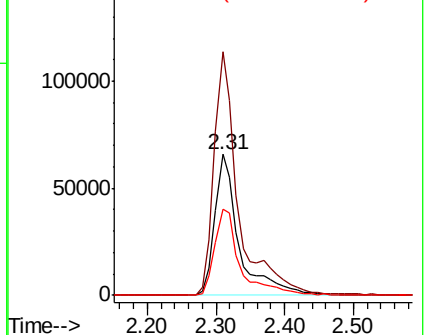
96 100

61 173.1 134.5 201.7

98 61.6 51.6 77.4



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: 60.441 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Tgt Ion: 45 Resp: 277961

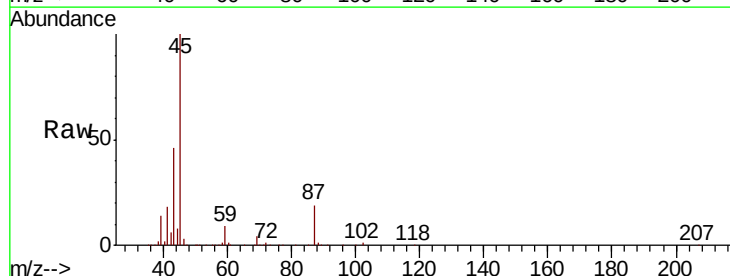
Ion Ratio Lower Upper

45 100

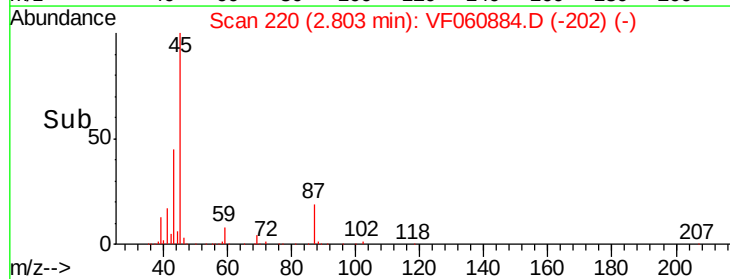
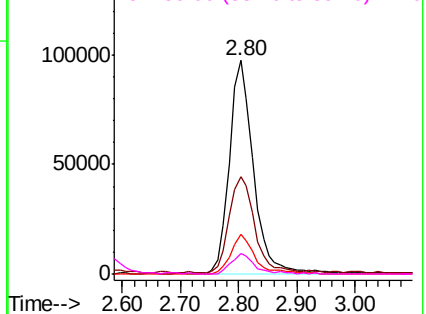
43 45.8 41.0 61.6

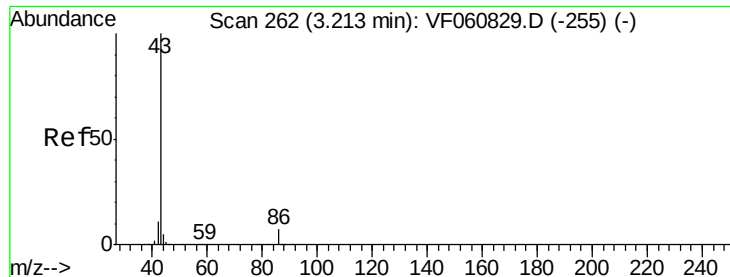
87 18.6 14.6 22.0

59 9.4 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: 271.146 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

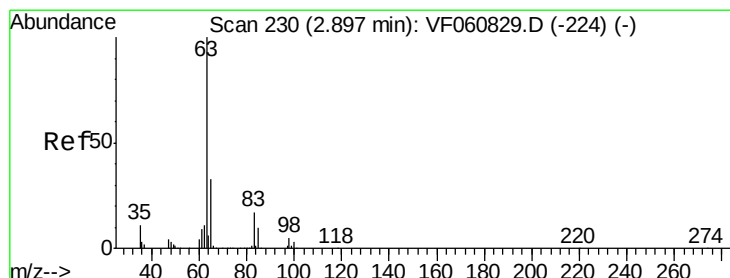
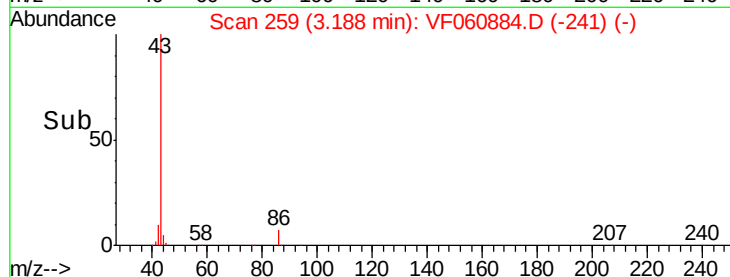
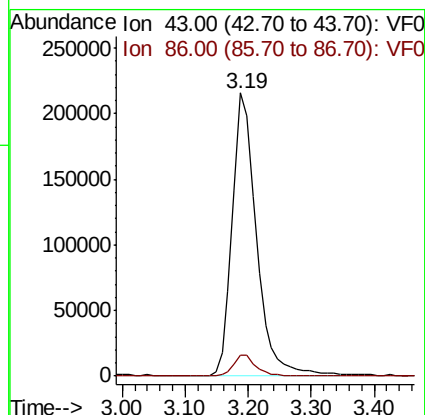
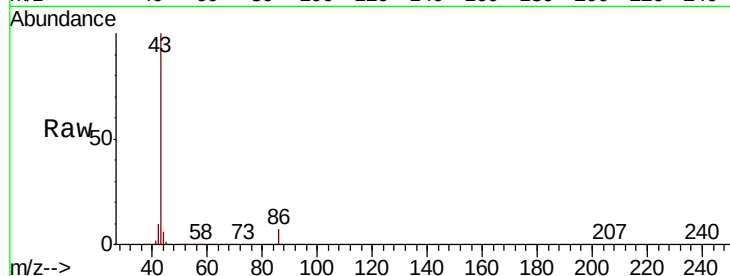
S49-0483MSD

Tot Ion: 43 Resp: 570005

Ion Ratio Lower Upper

43 100

86 7.3 5.4 8.0



#24

1,1-Dichloroethane

Concen: 57.609 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

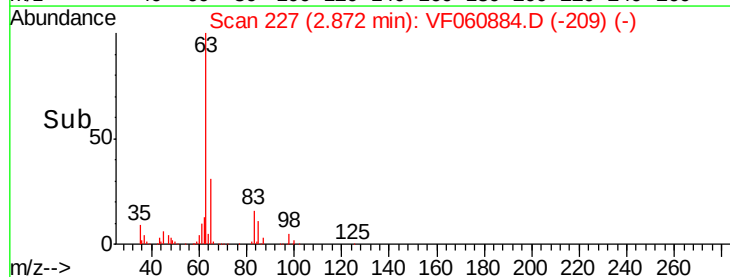
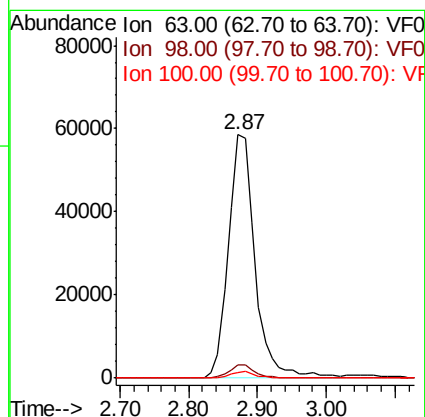
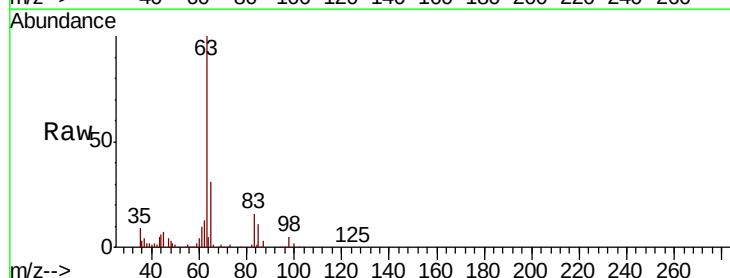
Tgt Ion: 63 Resp: 157629

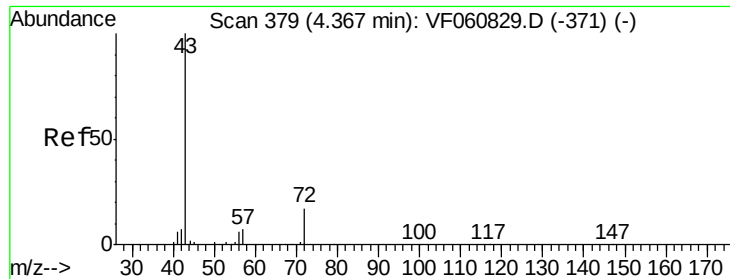
Ion Ratio Lower Upper

63 100

98 5.4 2.7 8.1

100 2.4 1.5 4.5





#25

2-Butanone

Concen: 327.744 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

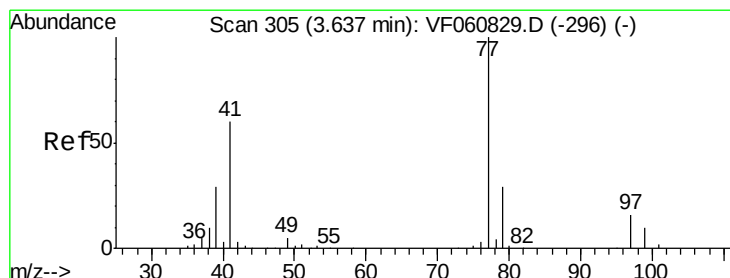
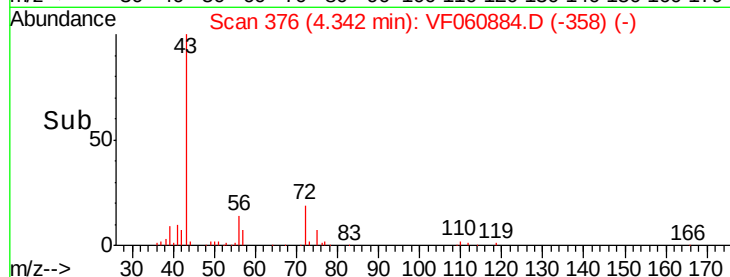
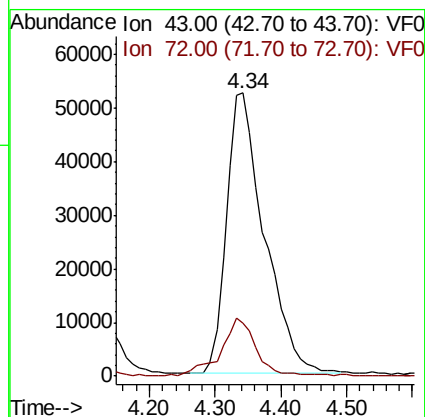
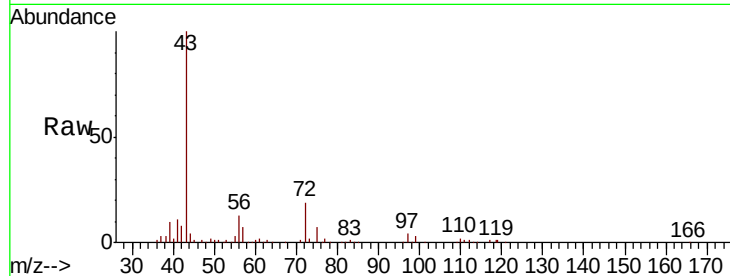
S49-0483MSD

Tot Ion: 43 Resp: 210821

Ion Ratio Lower Upper

43 100

72 18.7 15.4 23.2



#26

2,2-Dichloropropane

Concen: 49.293 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF060884.D

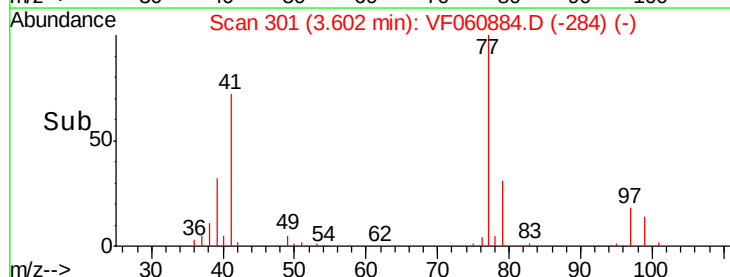
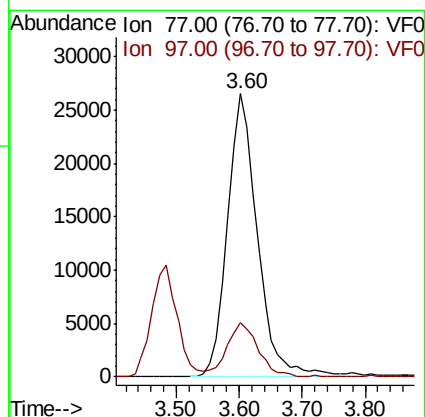
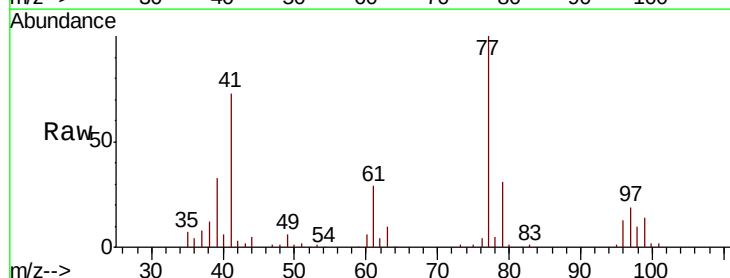
Acq: 29 Nov 2018 23:30

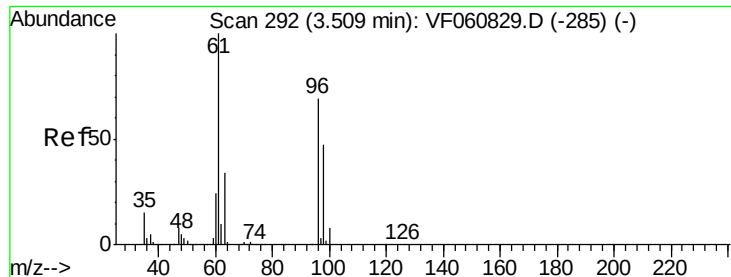
Tgt Ion: 77 Resp: 87440

Ion Ratio Lower Upper

77 100

97 19.0 8.6 25.8



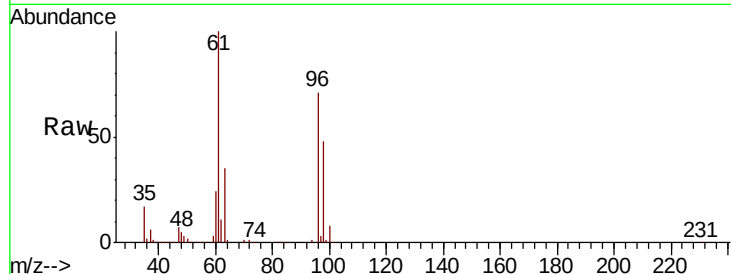


#27

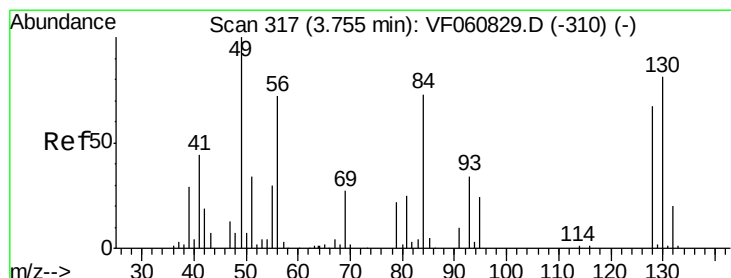
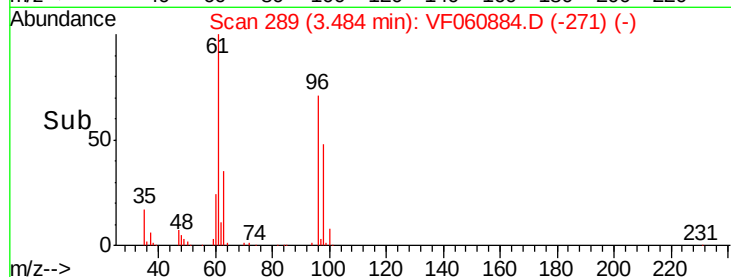
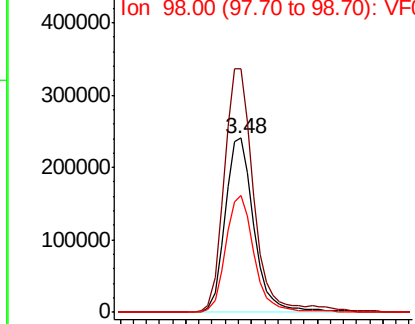
cis-1,2-Dichloroethene
 Concen: 346.970 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	290.6
98	67.2	0.0	137.8



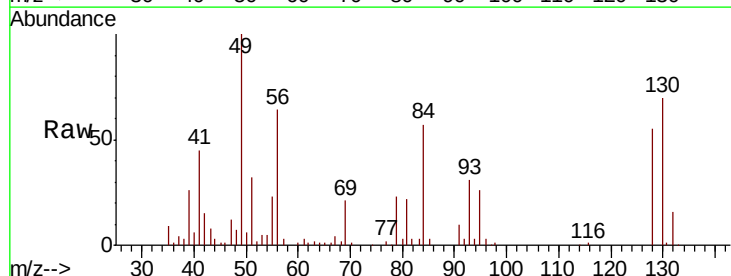
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



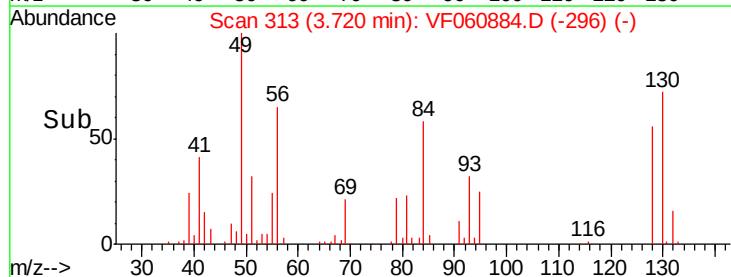
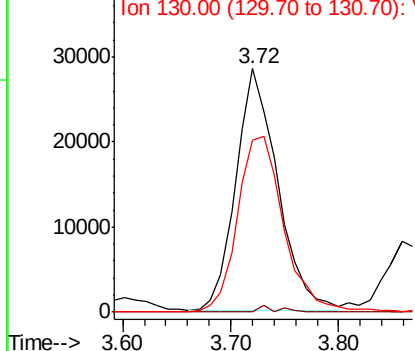
#28

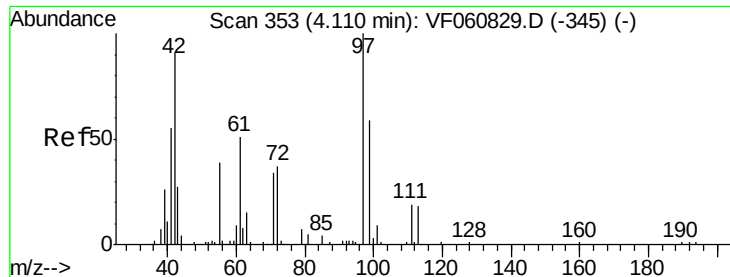
Bromochloromethane
 Concen: 58.490 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.04 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	70.4	64.2	96.4



Abundance Ion 49.00 (48.70 to 49.70): VF0
 Ion 129.00 (128.70 to 129.70): V
 Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 324.414 ug/l

RT: 4.08 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

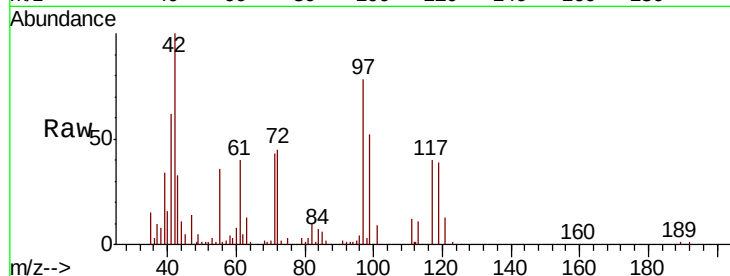
Tot Ion: 42 Resp: 88456

Ion Ratio Lower Upper

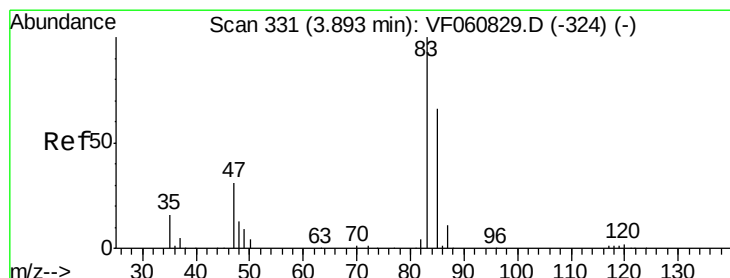
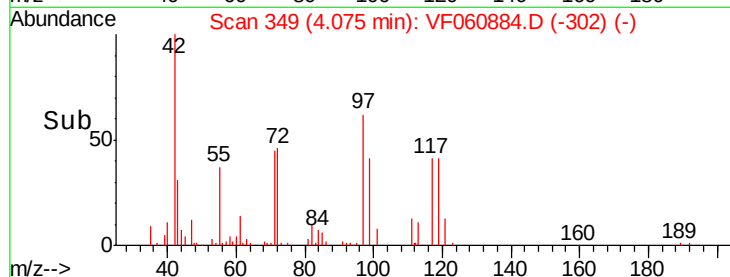
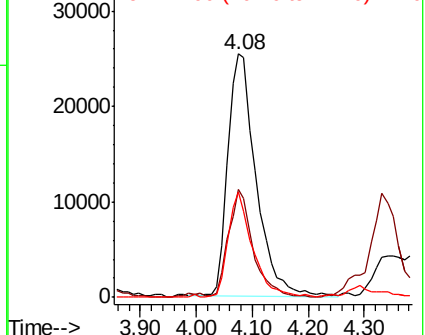
42 100

72 39.3 31.9 47.9

71 37.8 28.7 43.1



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 57.881 ug/l

RT: 3.87 min Scan# 328

Delta R.T. -0.03 min

Lab File: VF060884.D

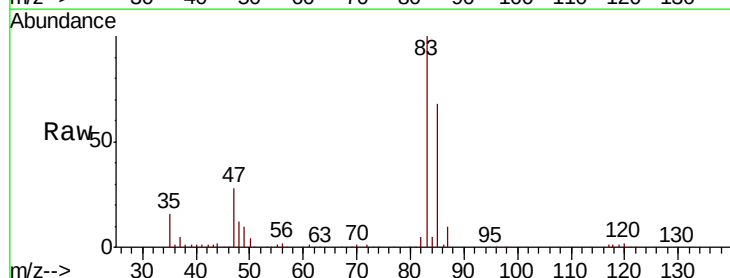
Acq: 29 Nov 2018 23:30

Tgt Ion: 83 Resp: 243746

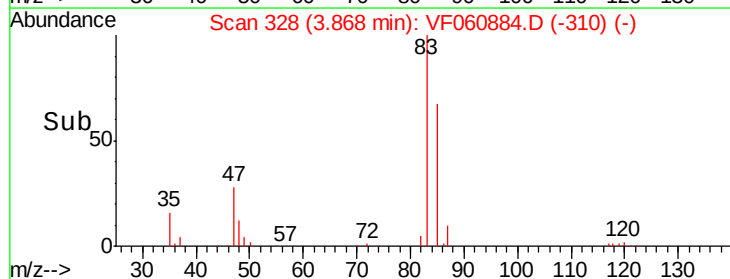
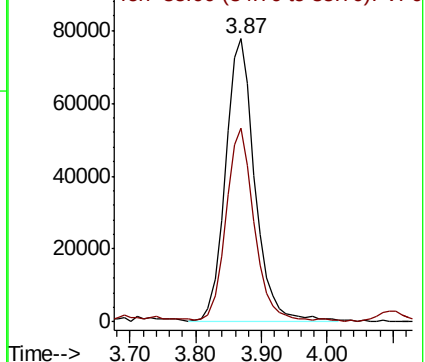
Ion Ratio Lower Upper

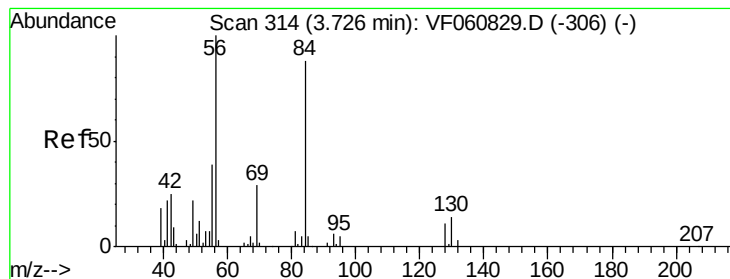
83 100

85 68.5 53.4 80.2



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 54.821 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

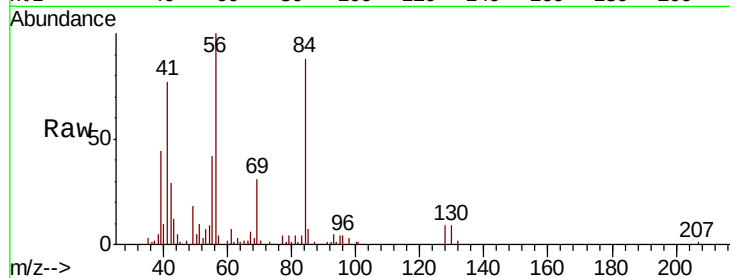
Tot Ion: 56 Resp: 155673

Ion Ratio Lower Upper

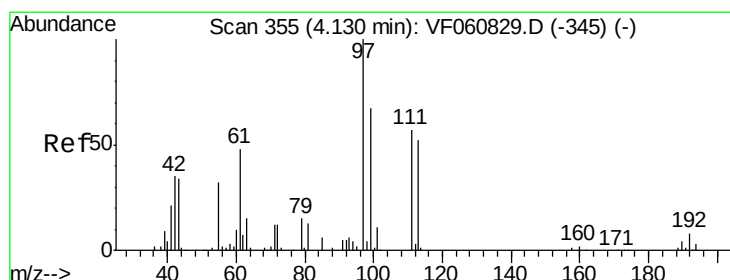
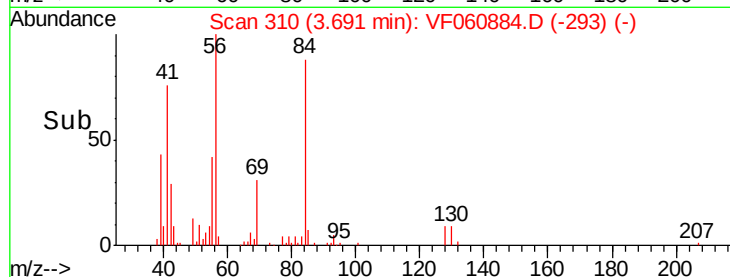
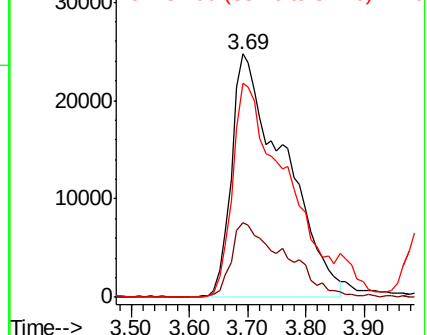
56 100

69 30.9 23.0 34.4

84 88.0 70.4 105.6



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 50.437 ug/l

RT: 4.10 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

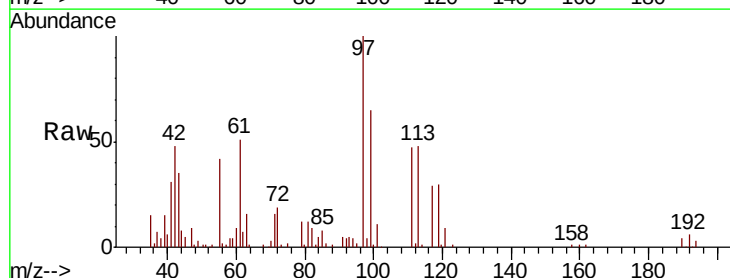
Tgt Ion: 97 Resp: 147302

Ion Ratio Lower Upper

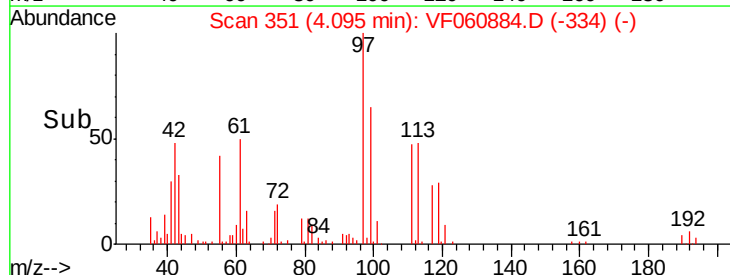
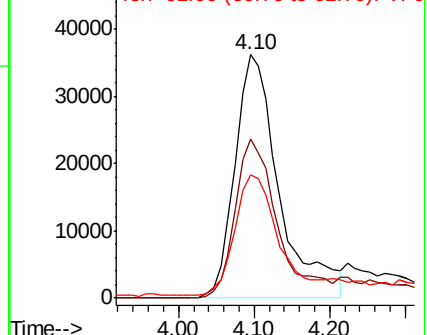
97 100

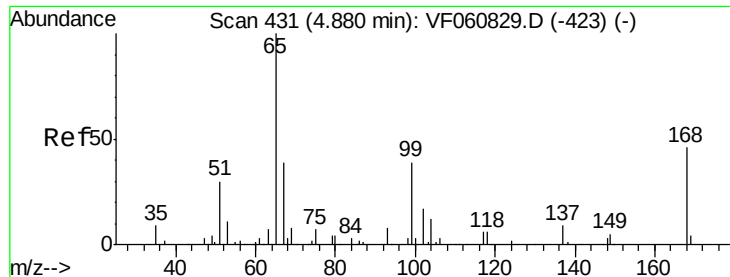
99 65.2 53.5 80.3

61 50.7 38.6 58.0



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

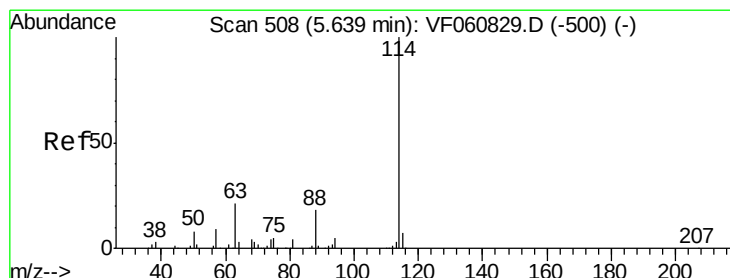
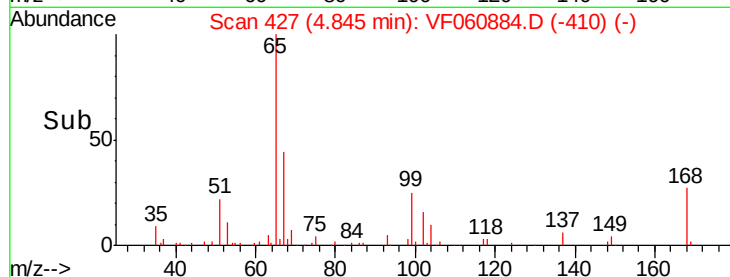
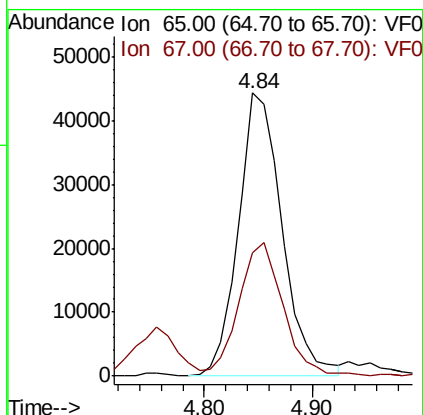
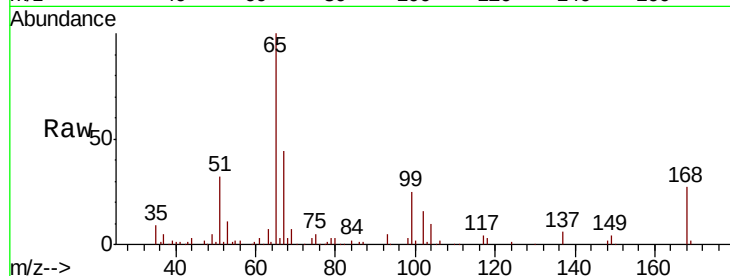




#33
 1,2-Dichloroethane-d4
 Concen: 62.132 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

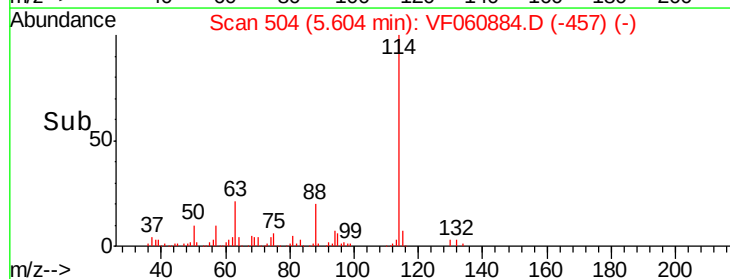
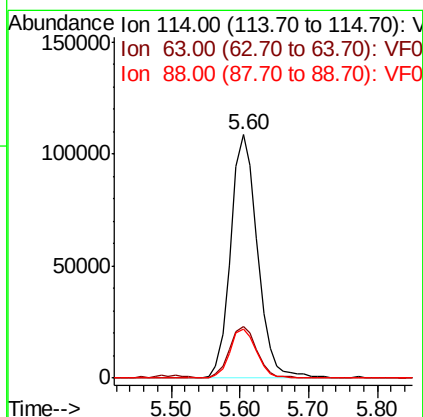
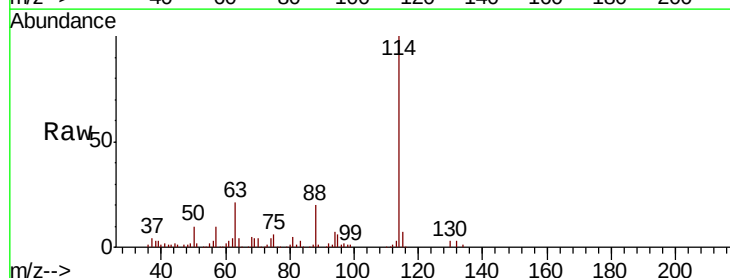
Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

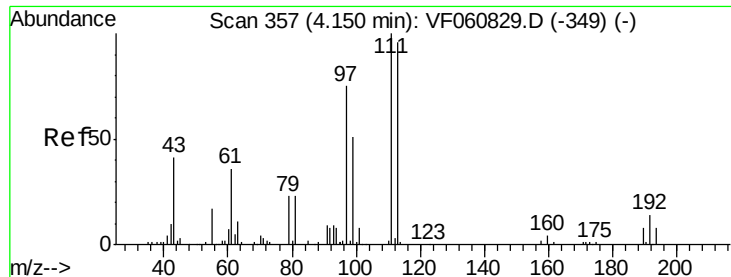
Tot Ion: 65 Resp: 125304
 Ion Ratio Lower Upper
 65 100
 67 43.7 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion: 114 Resp: 293997
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 41.6
 88 20.0 0.0 36.6

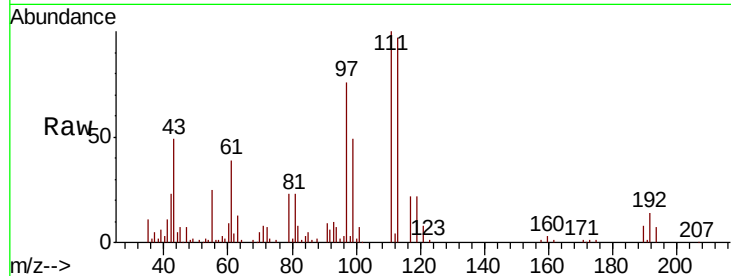




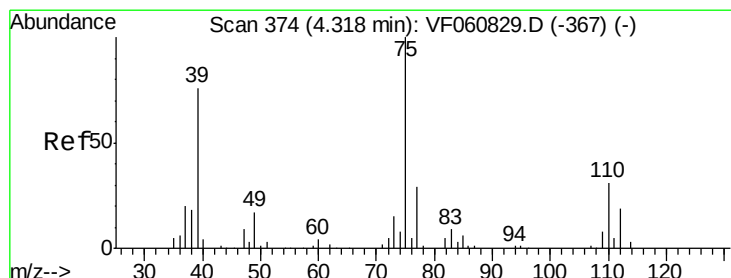
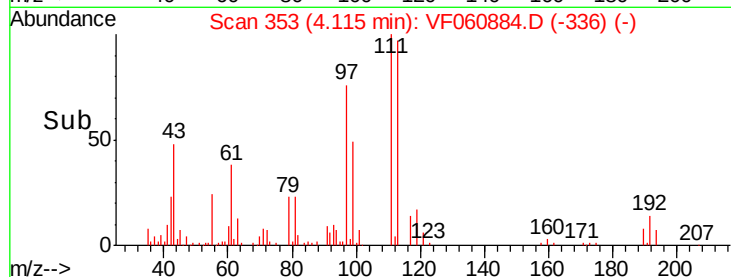
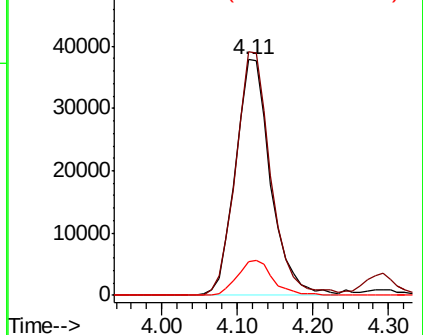
#35
 Dibromofluoromethane
 Concen: 52.172 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

Tot Ion:113 Resp: 121684
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.0 124.6
 192 14.0 12.3 18.5

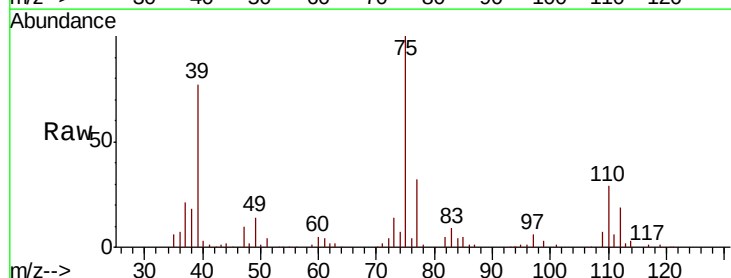


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

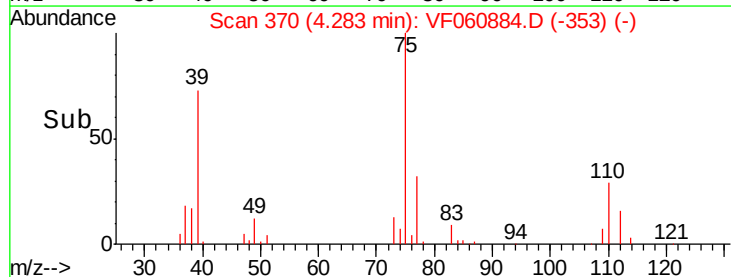
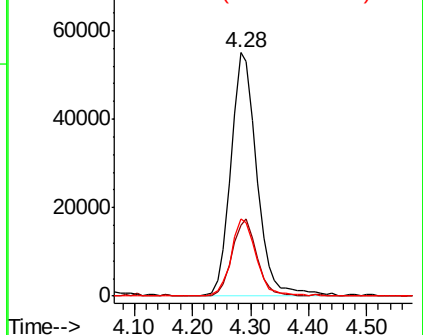


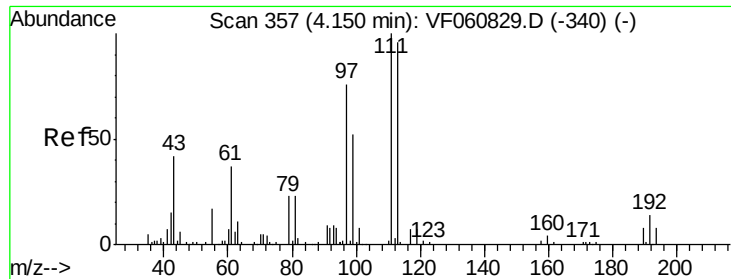
#36
 1,1-Dichloropropene
 Concen: 52.788 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.04 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion: 75 Resp: 172138
 Ion Ratio Lower Upper
 75 100
 110 28.8 15.6 46.8
 77 31.6 23.4 35.0



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

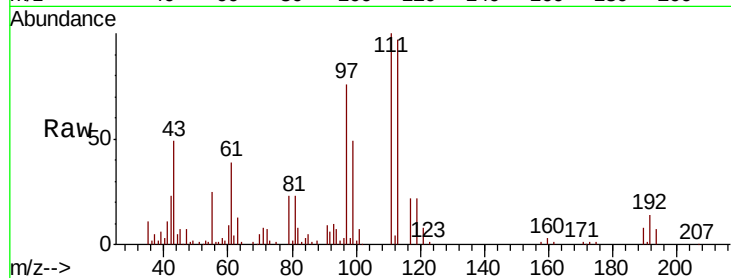




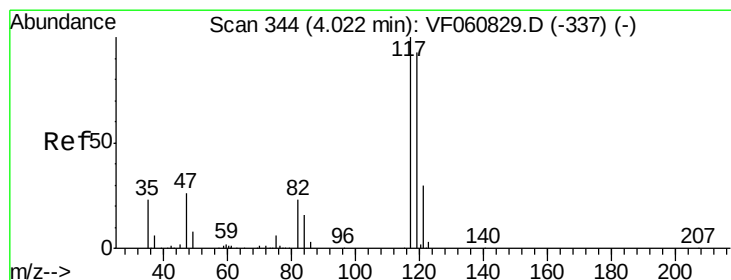
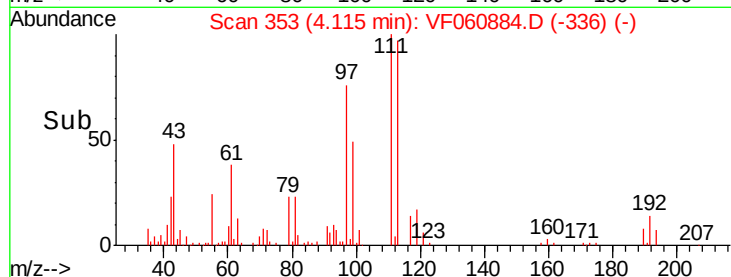
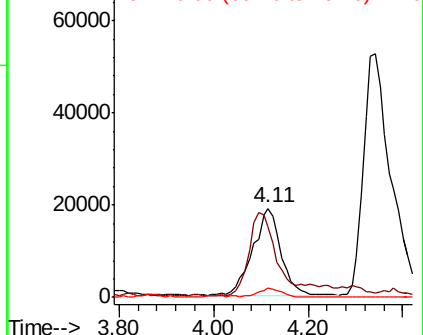
#37
Ethyl Acetate
Concen: 60.644 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

Tot Ion: 43 Resp: 80363
Ion Ratio Lower Upper
43 100
61 79.7 68.6 103.0
70 9.9 9.0 13.4

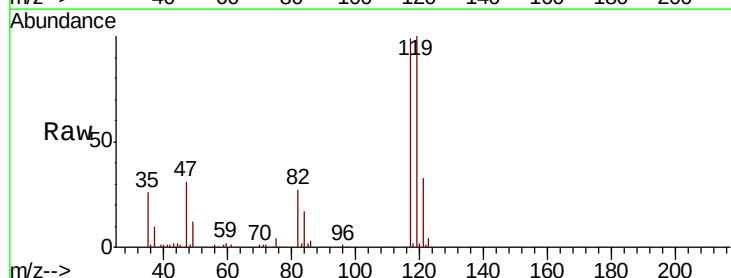


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

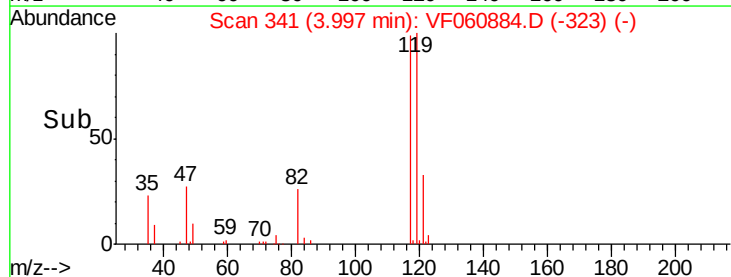
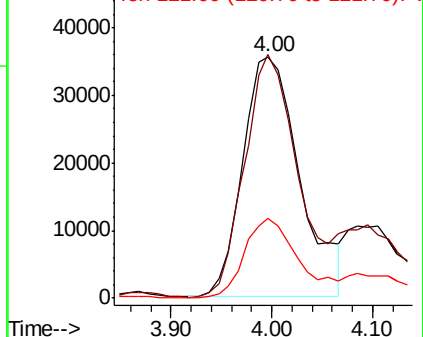


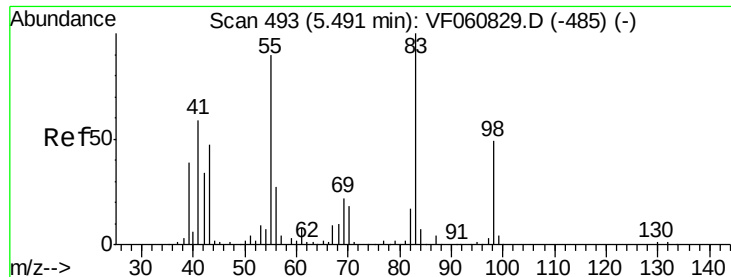
#38
Carbon Tetrachloride
Concen: 48.738 ug/l
RT: 4.00 min Scan# 341
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion: 117 Resp: 140375
Ion Ratio Lower Upper
117 100
119 100.8 74.4 111.6
121 33.0 23.5 35.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

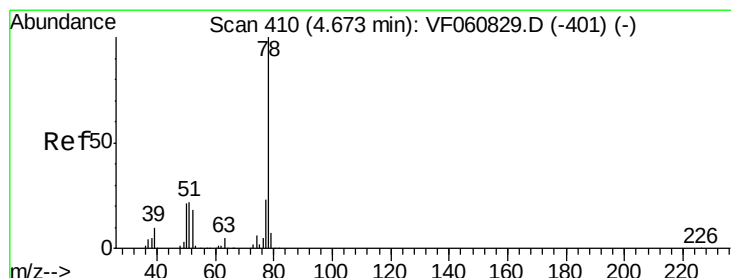
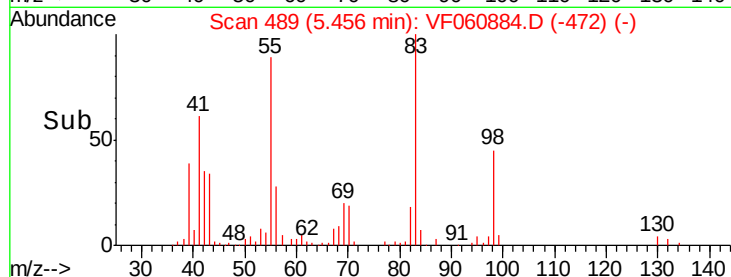
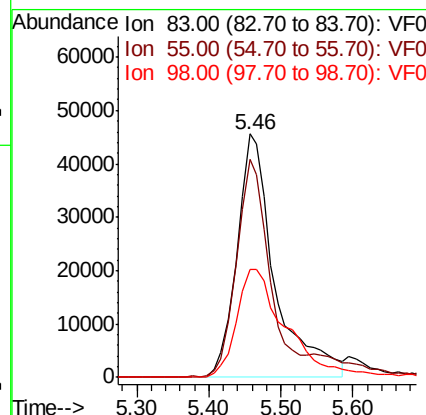
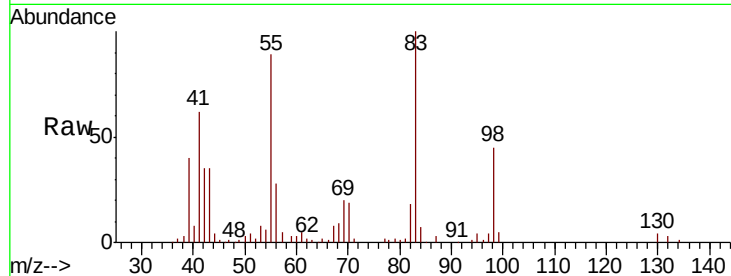




#39
Methylvlcyclohexane
Concen: 49.031 ug/l
RT: 5.46 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

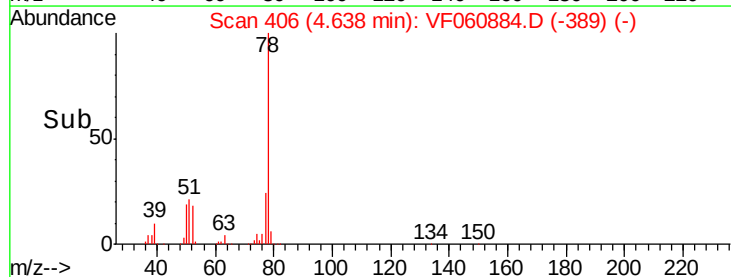
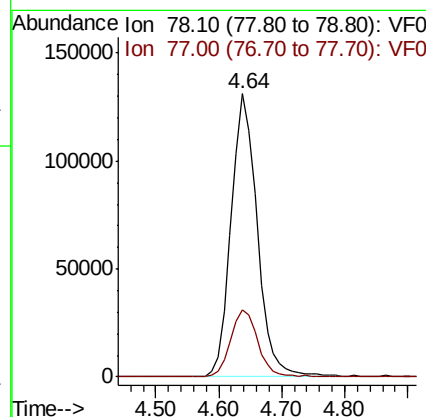
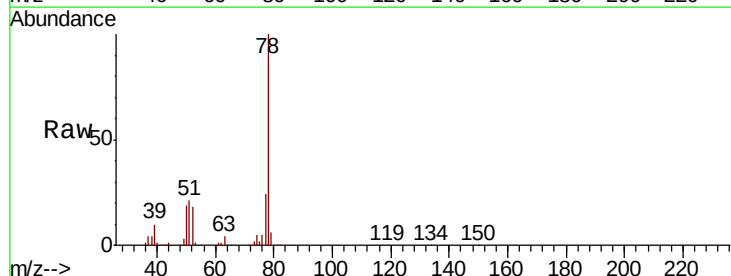
Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

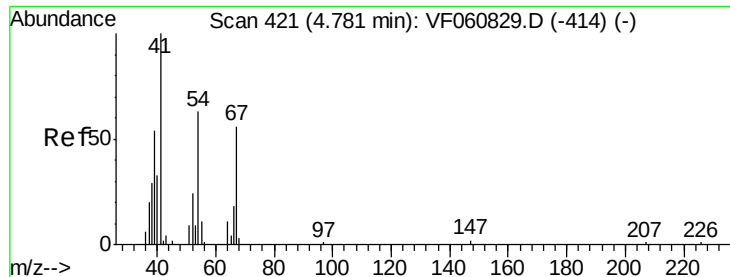
Tot Ion: 83 Resp: 167557
Ion Ratio Lower Upper
83 100
55 89.4 72.1 108.1
98 44.5 39.1 58.7



#40
Benzene
Concen: 52.314 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion: 78 Resp: 376869
Ion Ratio Lower Upper
78 100
77 23.9 18.7 28.1

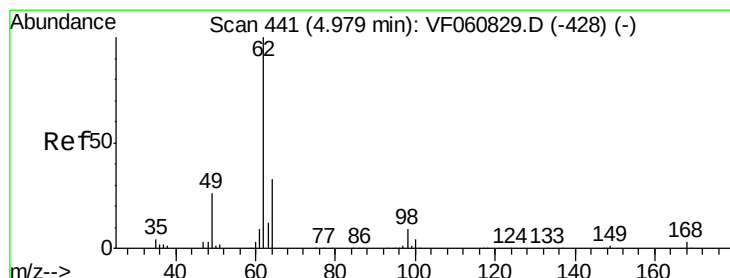
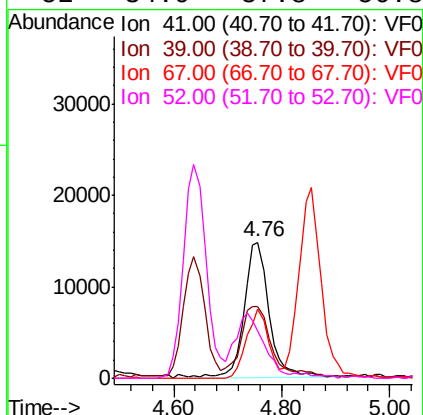
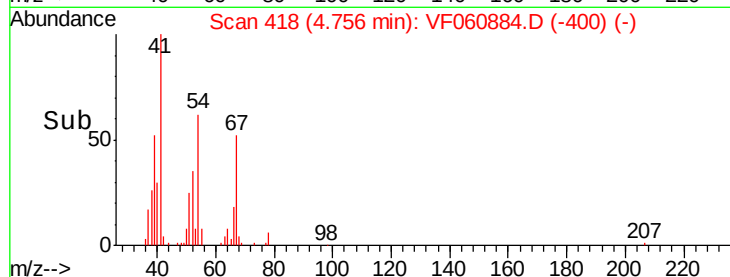
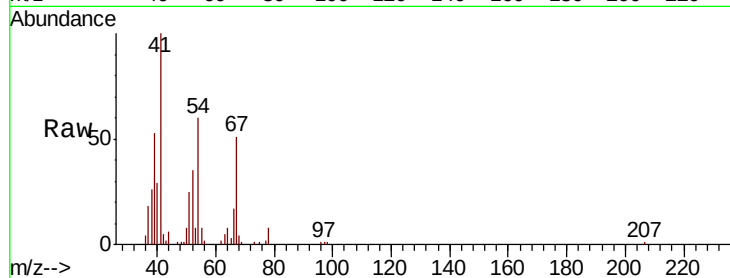




#41
Methacrylonitrile
Concen: 70.132 ug/l
RT: 4.76 min Scan# 418
Delta R.T. -0.02 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

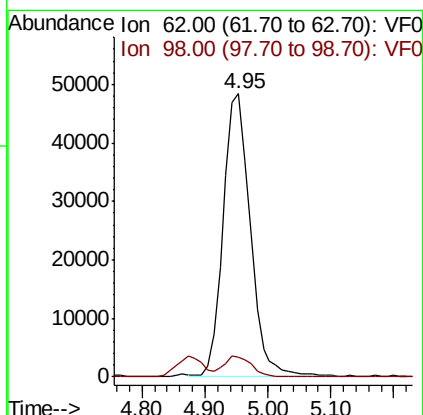
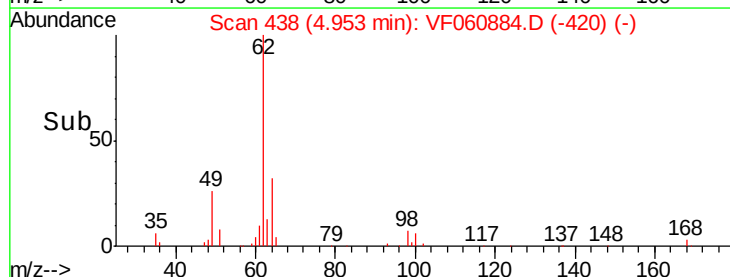
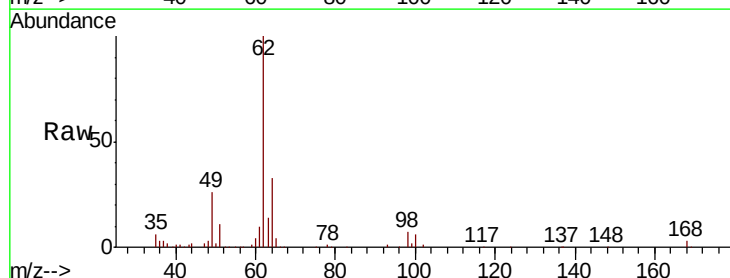
Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

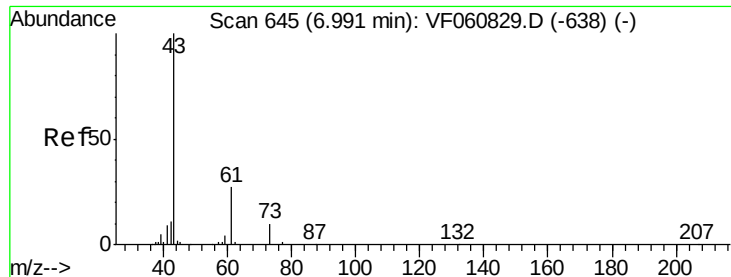
Tot Ion: 41 Resp: 47046
Ion Ratio Lower Upper
41 100
39 53.1 53.0 79.6
67 51.2 43.8 65.6
52 34.9 37.8 56.8#



#42
1,2-Dichloroethane
Concen: 54.421 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion: 62 Resp: 143130
Ion Ratio Lower Upper
62 100
98 7.0 0.0 17.2





#43

Isopropyl Acetate

Concen: 63.722 ug/l

RT: 6.97 min Scan# 642

Delta R.T. -0.02 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

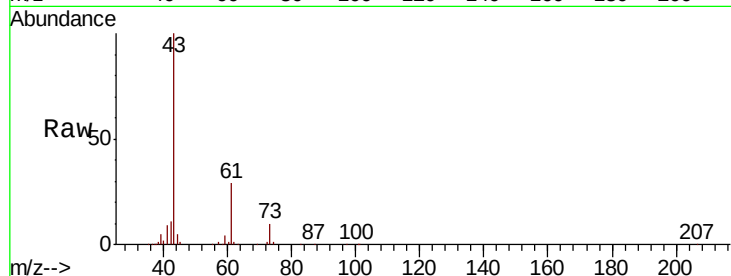
Tot Ion: 43 Resp: 102965

Ion Ratio Lower Upper

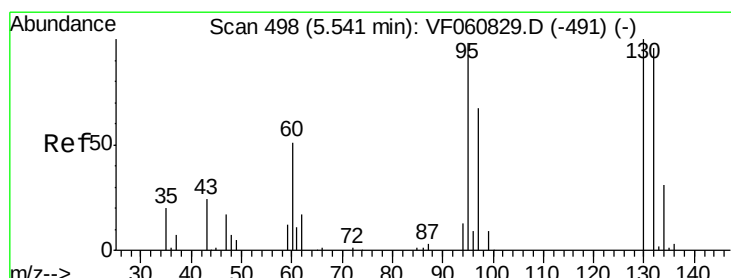
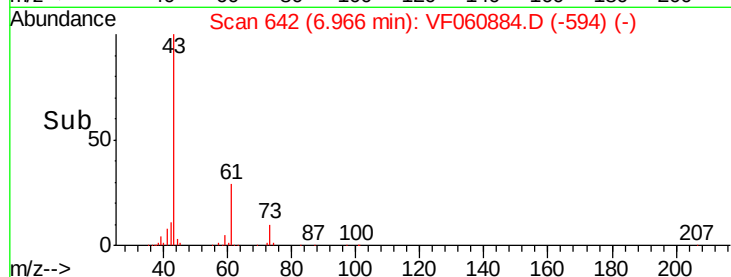
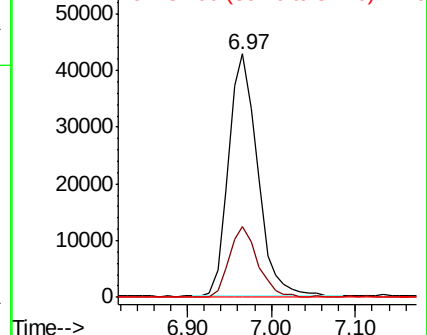
43 100

61 29.1 21.4 32.0

87 0.4 0.2 0.4#



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: 304.332 ug/l

RT: 5.51 min Scan# 494

Delta R.T. -0.04 min

Lab File: VF060884.D

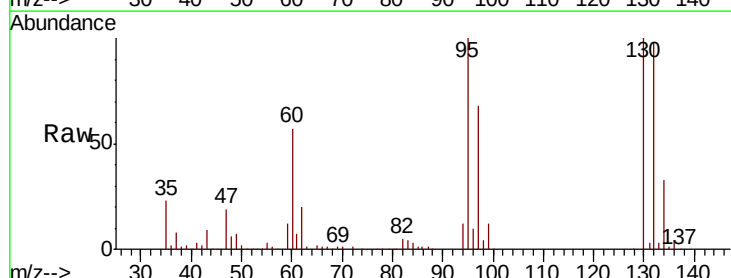
Acq: 29 Nov 2018 23:30

Tgt Ion: 130 Resp: 716848

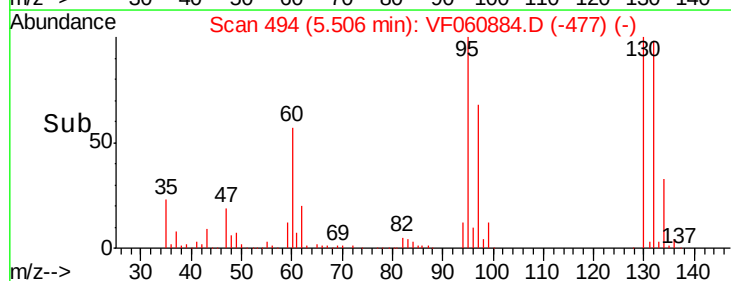
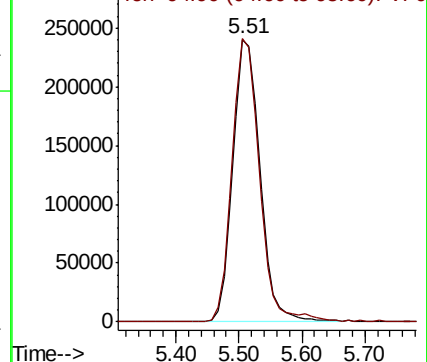
Ion Ratio Lower Upper

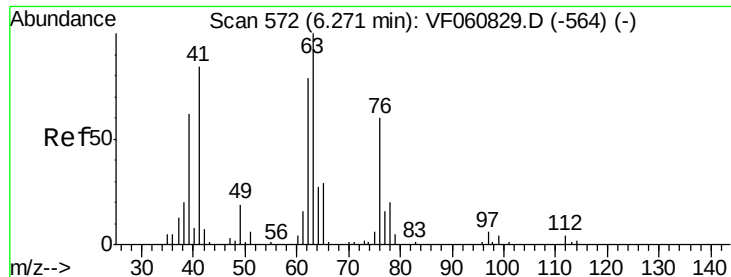
130 100

95 100.2 0.0 195.6



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

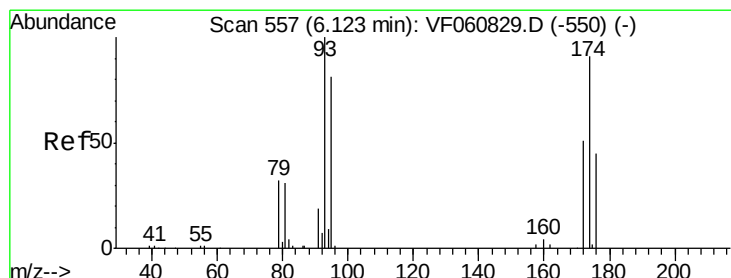
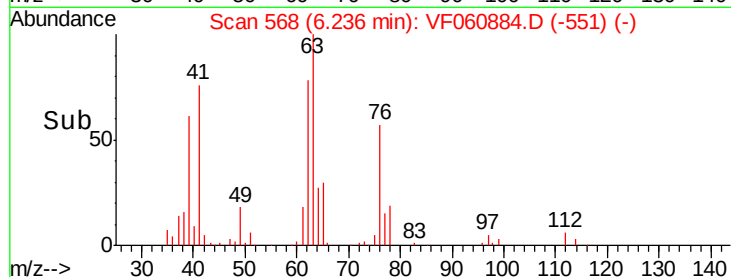
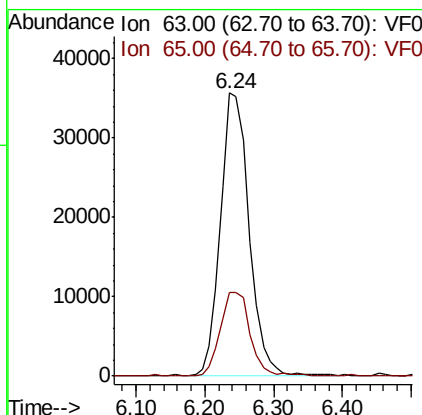
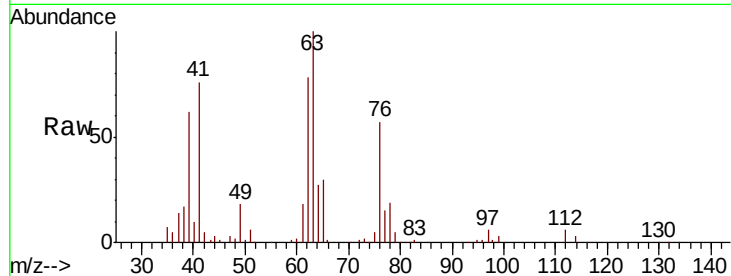




#45
 1,2-Dichloropropane
 Concen: 55.474 ug/l
 RT: 6.24 min Scan# 568
 Delta R.T. -0.04 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

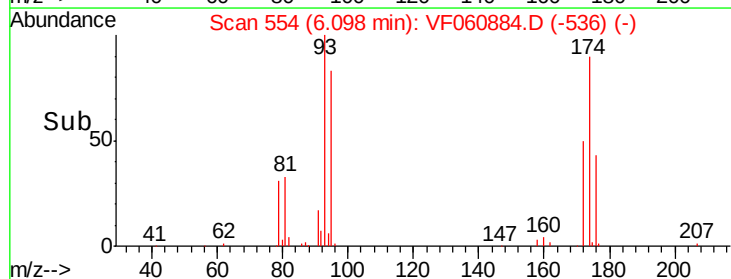
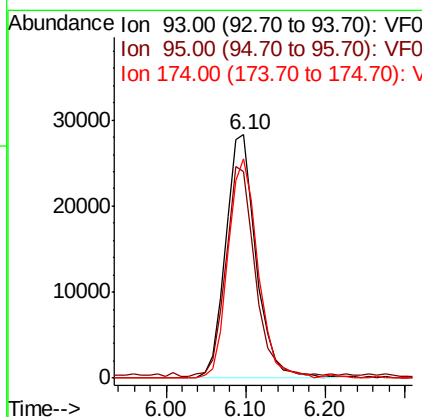
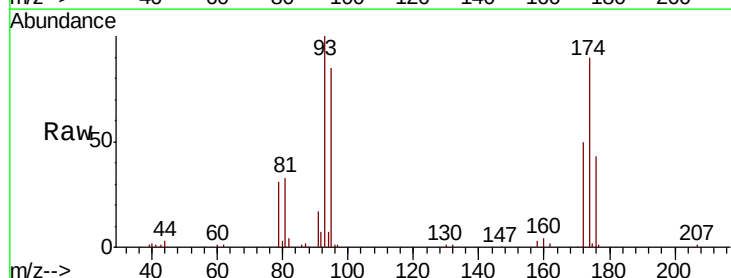
Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

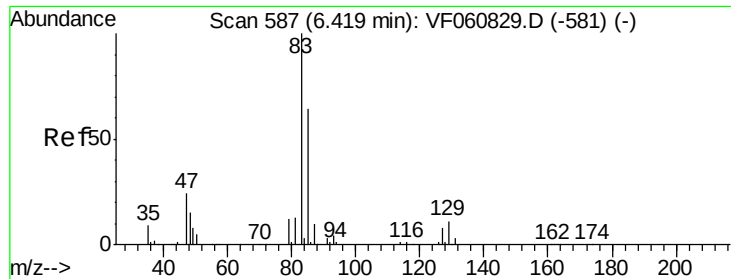
Tot Ion: 63 Resp: 103791
 Ion Ratio Lower Upper
 63 100
 65 29.6 23.2 34.8



#46
 Dibromomethane
 Concen: 59.815 ug/l
 RT: 6.10 min Scan# 554
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion: 93 Resp: 75918
 Ion Ratio Lower Upper
 93 100
 95 84.8 64.7 97.1
 174 90.1 73.0 109.6





#47

Bromodichloromethane

Concen: 53.580 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

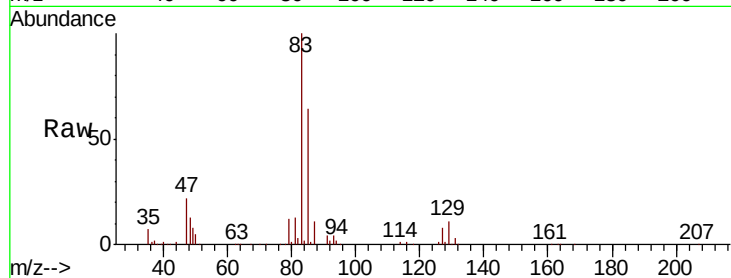
Tot Ion: 83 Resp: 180618

Ion Ratio Lower Upper

83 100

85 63.6 51.1 76.7

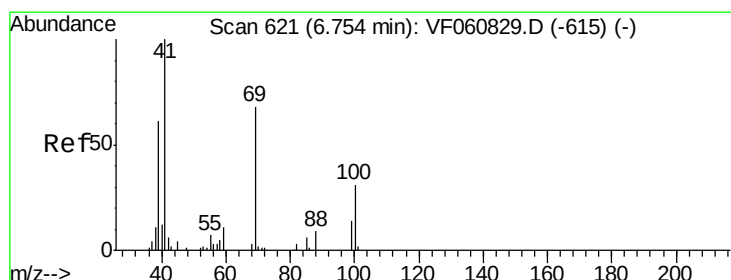
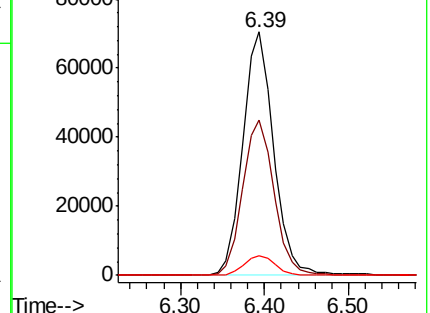
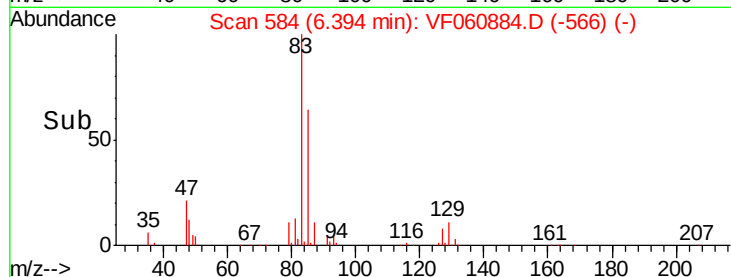
127 8.2 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 58.688 ug/l

RT: 6.72 min Scan# 617

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

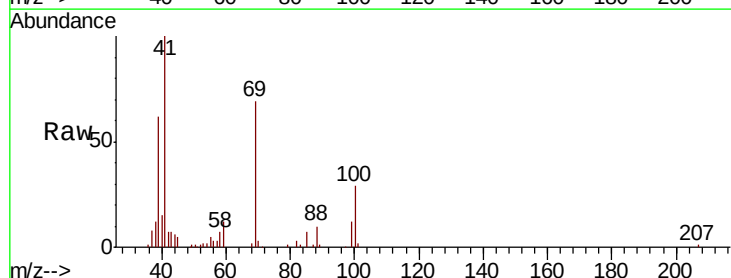
Tgt Ion: 41 Resp: 70396

Ion Ratio Lower Upper

41 100

69 69.1 53.9 80.9

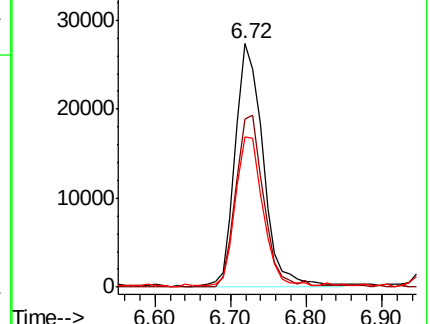
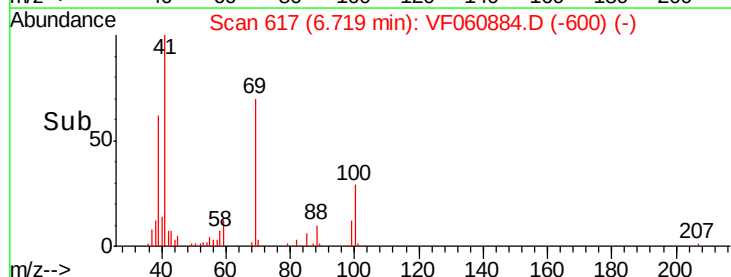
39 61.6 49.0 73.6

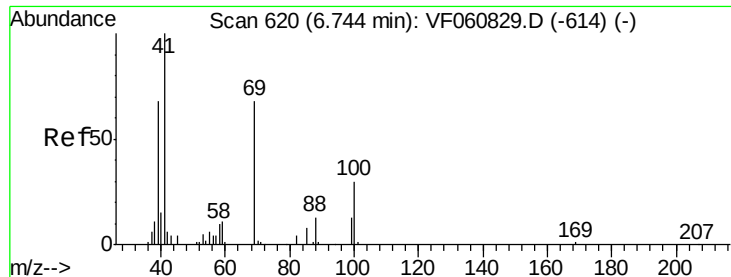


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1100.389 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

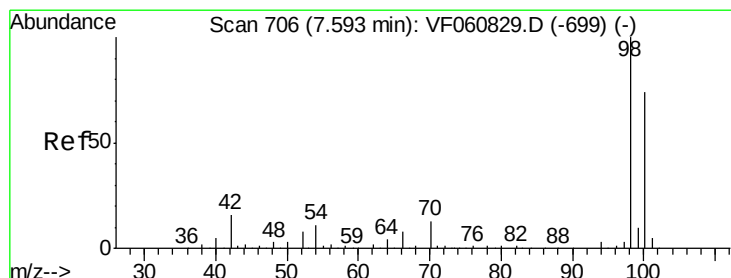
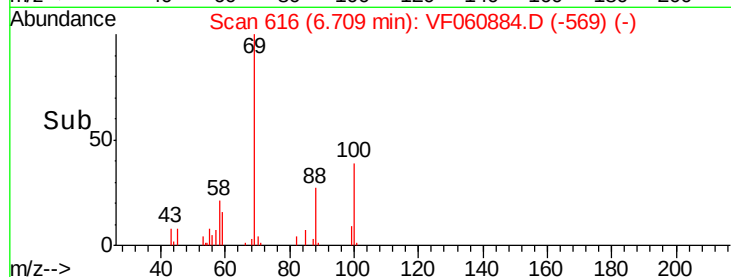
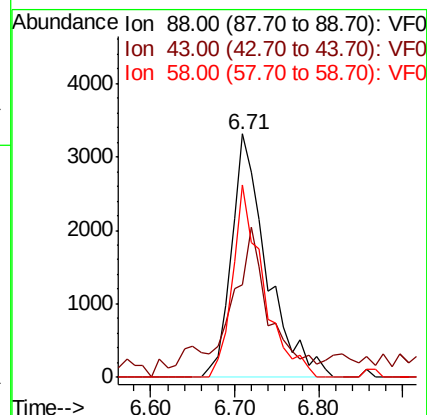
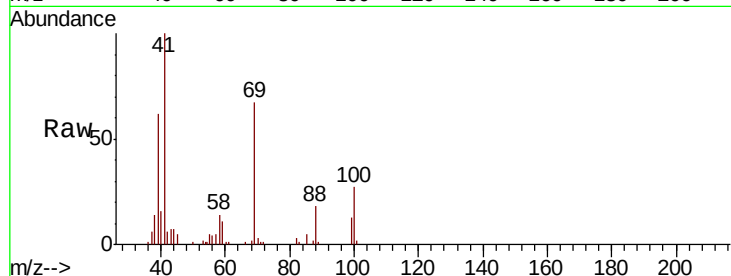
Tot Ion: 88 Resp: 9660

Ion Ratio Lower Upper

88 100

43 37.9 42.0 63.0#

58 78.9 61.8 92.8



#50

Toluene-d8

Concen: 52.660 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060884.D

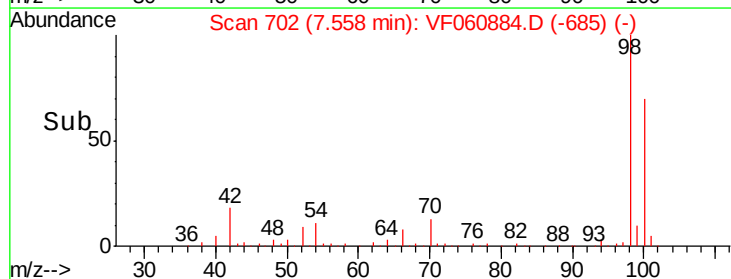
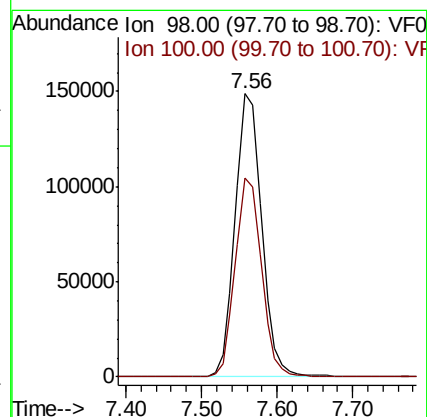
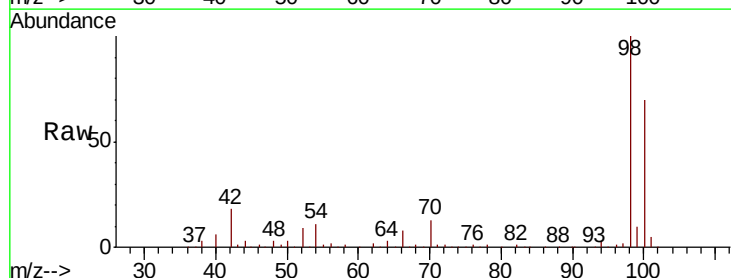
Acq: 29 Nov 2018 23:30

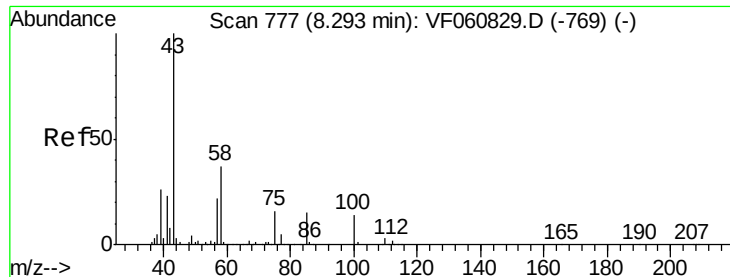
Tgt Ion: 98 Resp: 361798

Ion Ratio Lower Upper

98 100

100 70.5 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 307.316 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

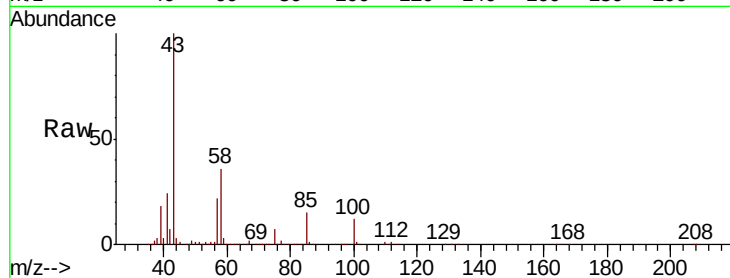
S49-0483MSD

Tot Ion: 43 Resp: 375540

Ion Ratio Lower Upper

43 100

58 35.9 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

100000

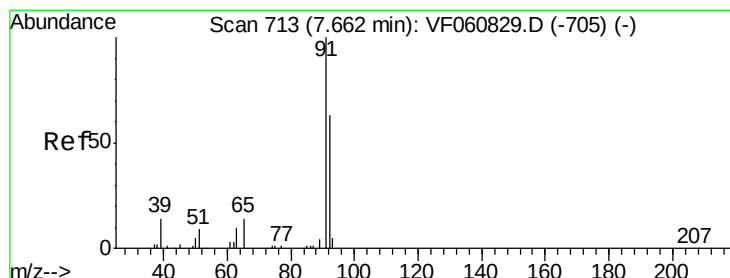
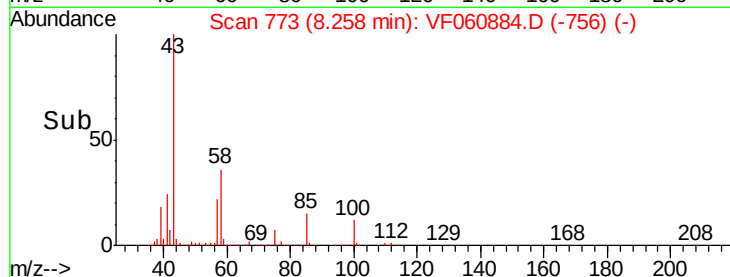
50000

0

8.26

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 51.006 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF060884.D

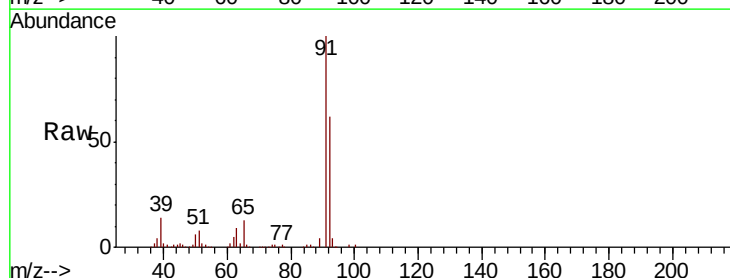
Acq: 29 Nov 2018 23:30

Tgt Ion: 92 Resp: 258101

Ion Ratio Lower Upper

92 100

91 160.5 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

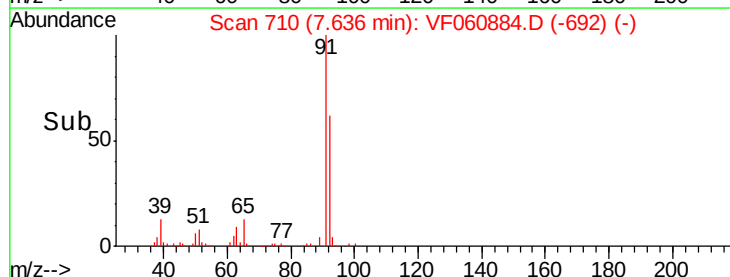
50000

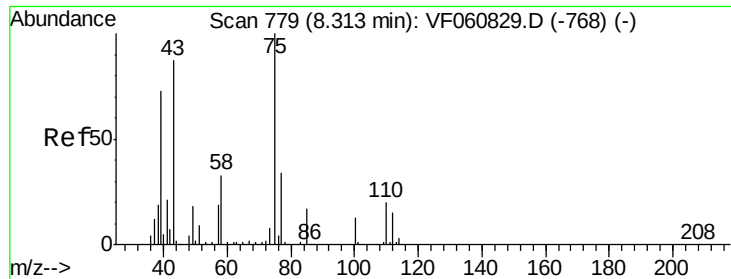
0

7.64

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 53.699 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

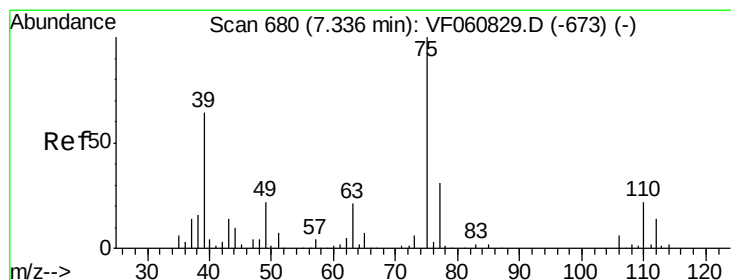
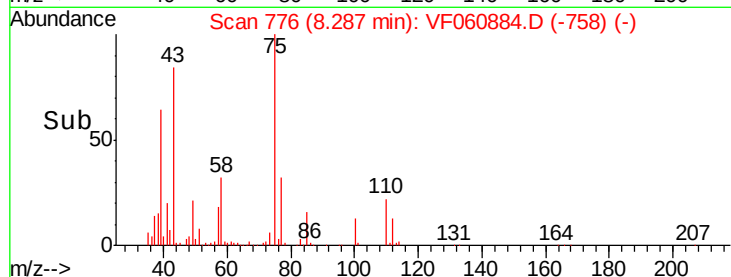
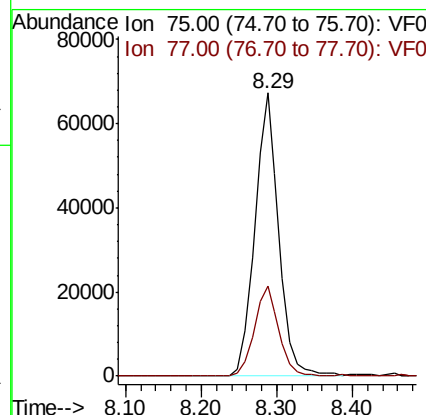
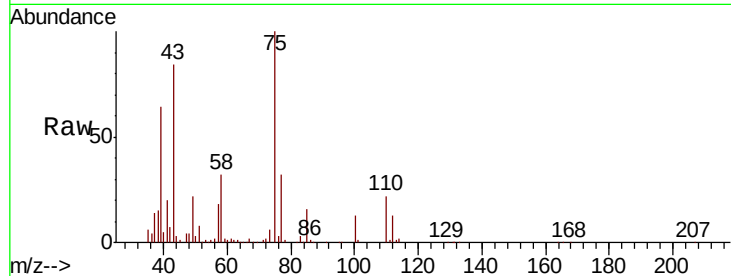
S49-0483MSD

Tot Ion: 75 Resp: 147243

Ion Ratio Lower Upper

75 100

77 31.7 27.4 41.2



#54

cis-1,3-Dichloropropene

Concen: 52.554 ug/l

RT: 7.31 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

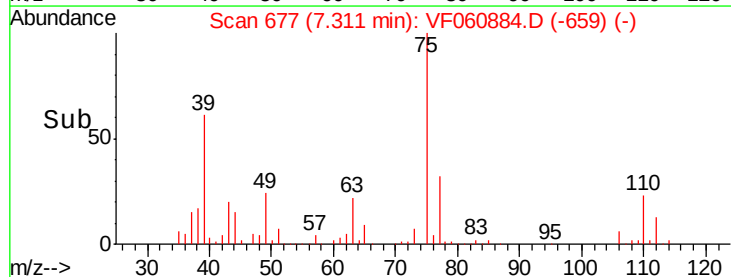
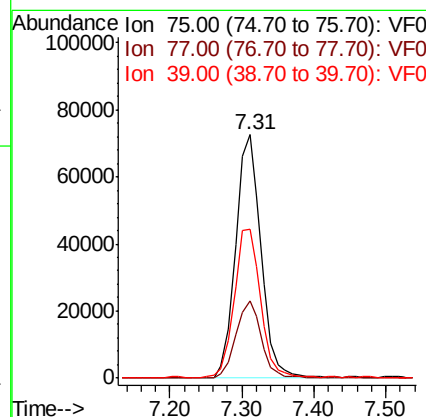
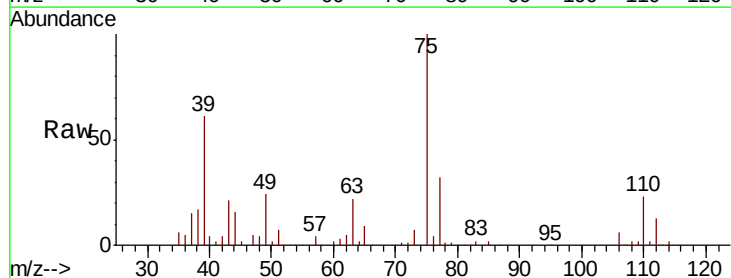
Tgt Ion: 75 Resp: 178398

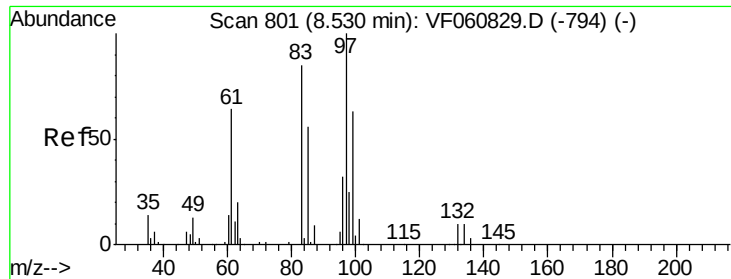
Ion Ratio Lower Upper

75 100

77 31.6 25.0 37.6

39 61.3 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 54.155 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

Tot Ion: 97 Resp: 79851

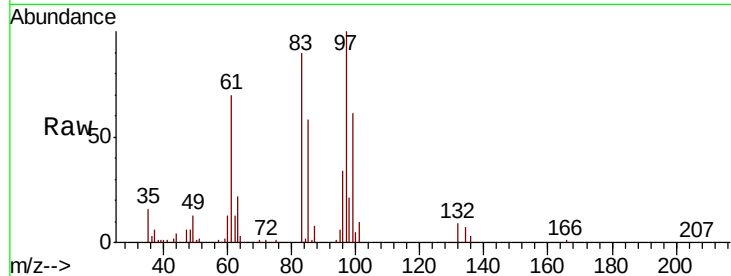
Ion Ratio Lower Upper

97 100

83 90.2 67.8 101.6

85 57.6 45.0 67.6

99 60.7 50.5 75.7

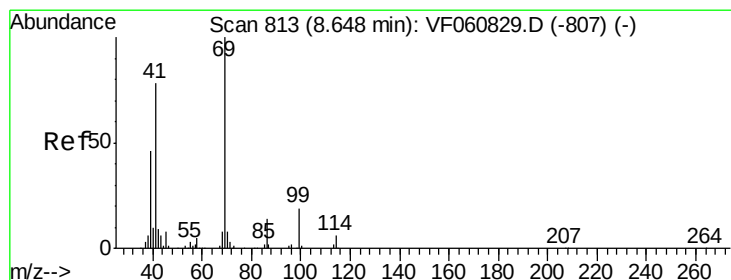
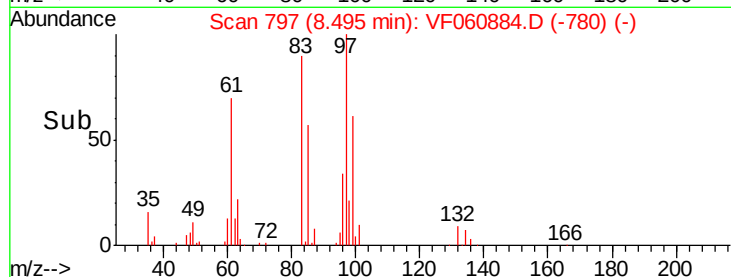
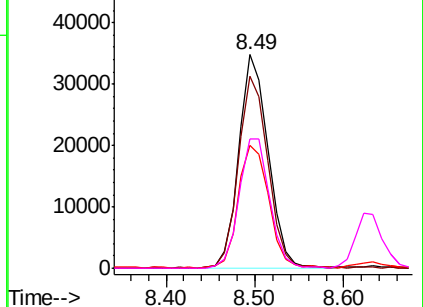


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 60.755 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

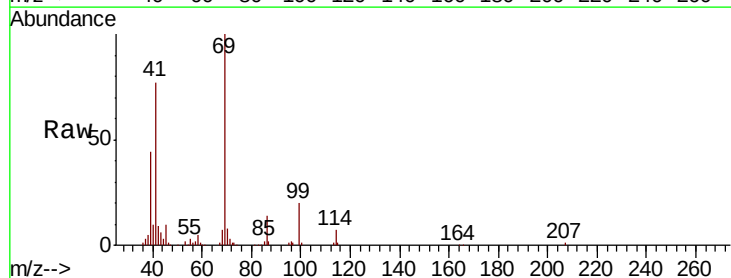
Tgt Ion: 69 Resp: 99514

Ion Ratio Lower Upper

69 100

41 76.6 62.6 94.0

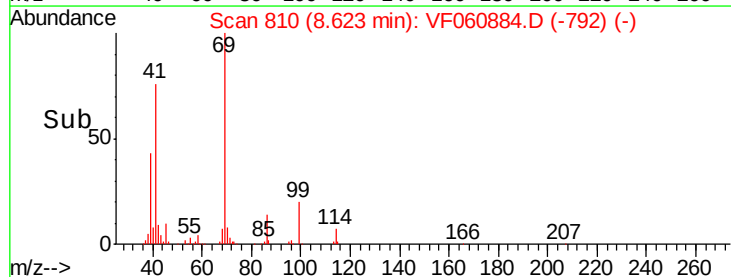
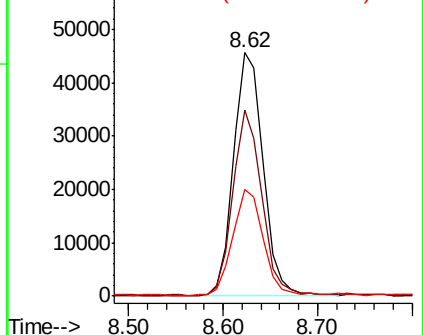
39 43.9 37.8 56.6

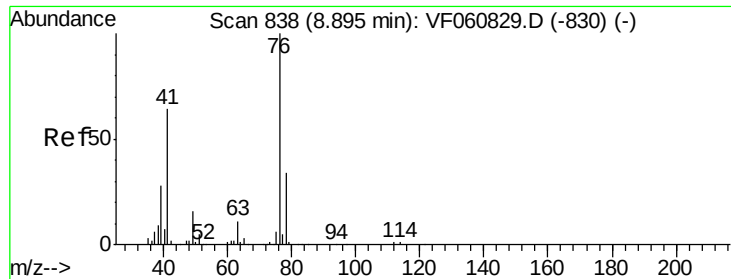


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 57.730 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

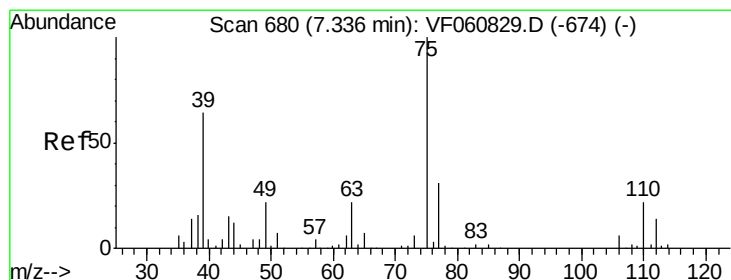
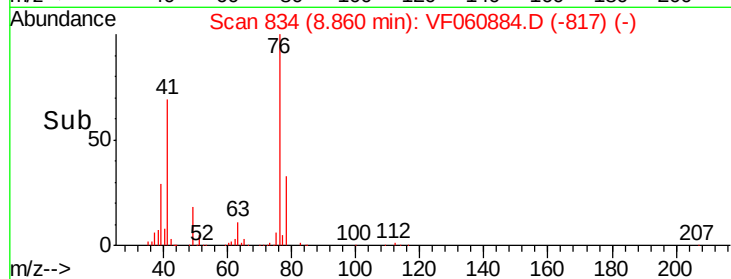
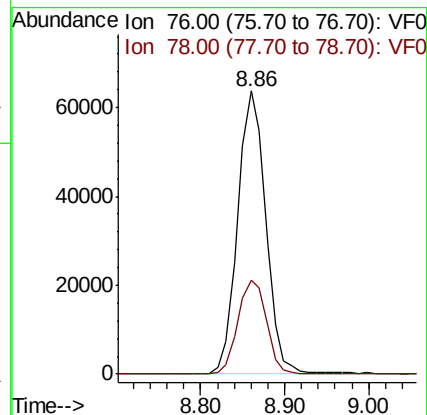
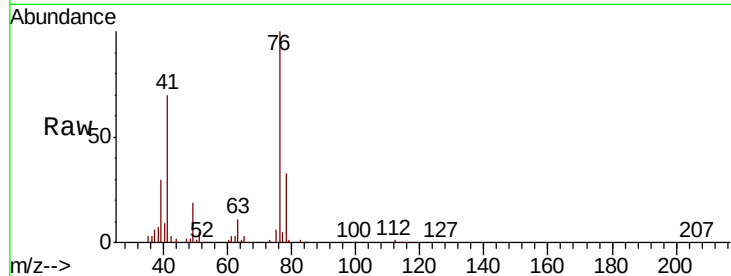
S49-0483MSD

Tot Ion: 76 Resp: 148924

Ion Ratio Lower Upper

76 100

78 33.1 27.0 40.4



#58

2-Chloroethyl Vinyl ether

Concen: 261.848 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF060884.D

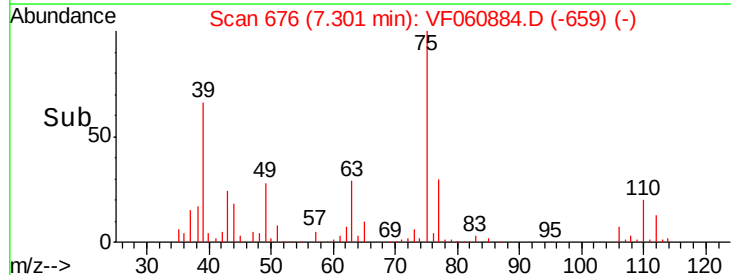
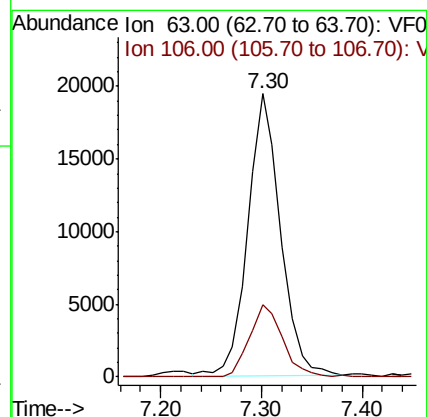
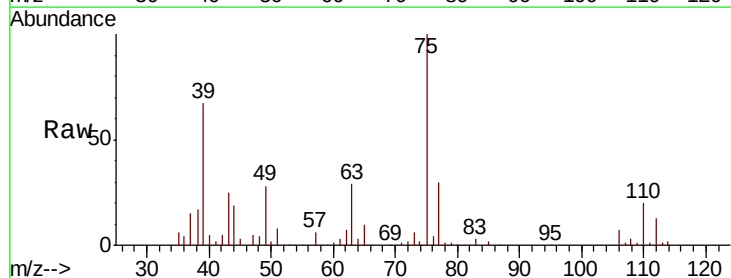
Acq: 29 Nov 2018 23:30

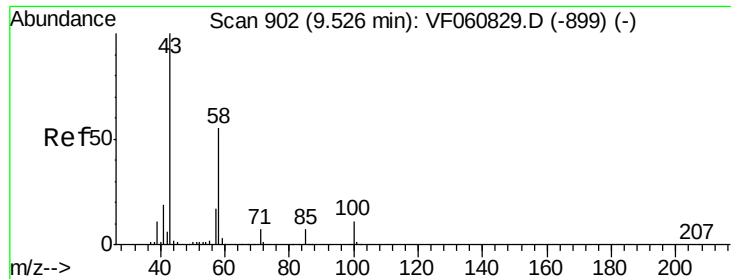
Tgt Ion: 63 Resp: 43870

Ion Ratio Lower Upper

63 100

106 25.3 23.0 34.6

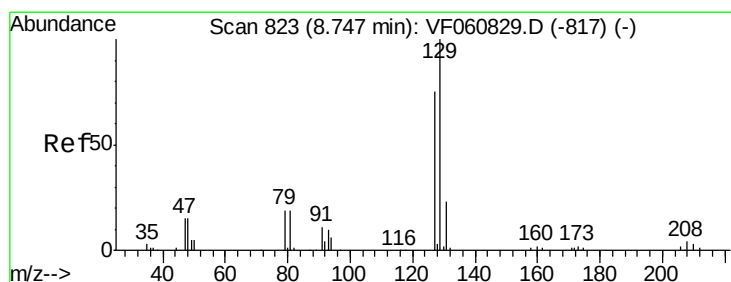
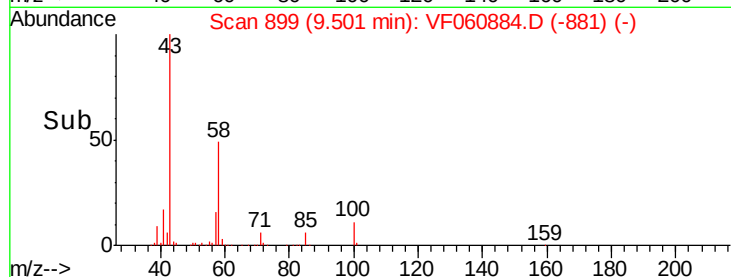
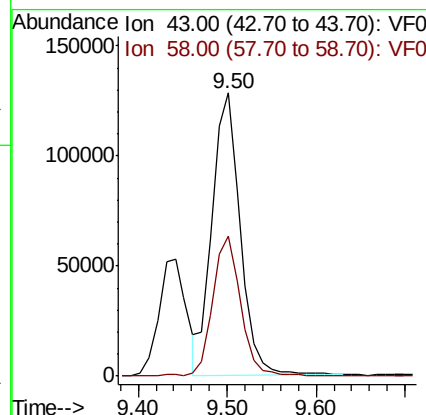
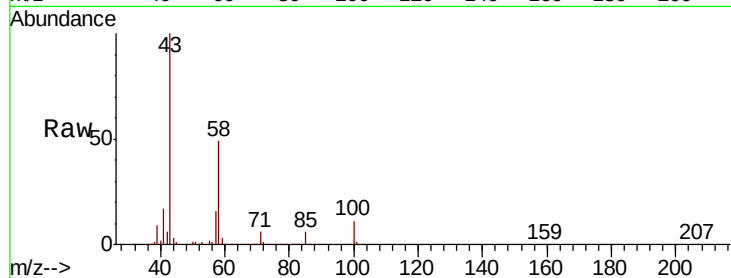




#59
2-Hexanone
Concen: 326.892 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

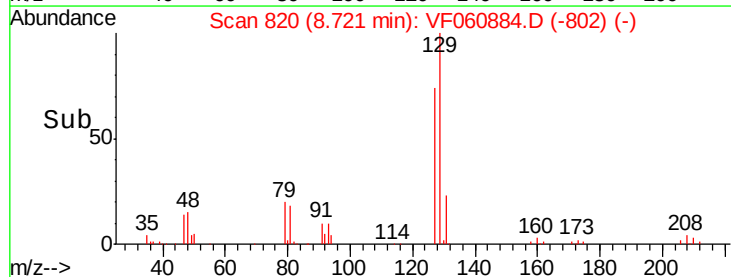
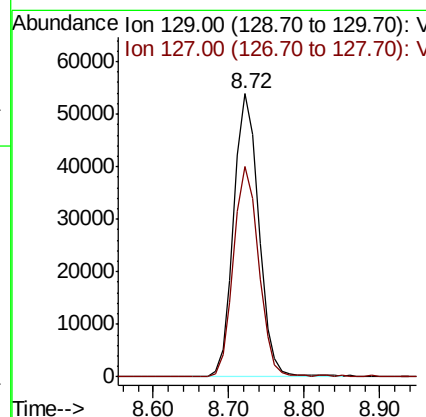
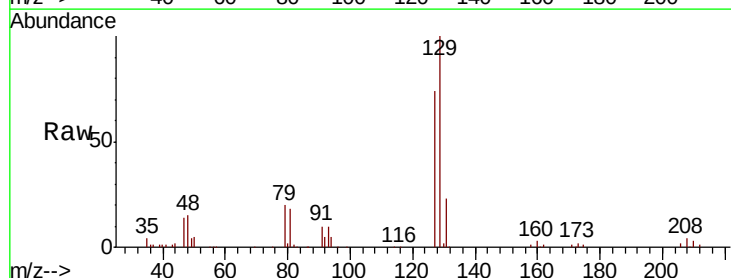
Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

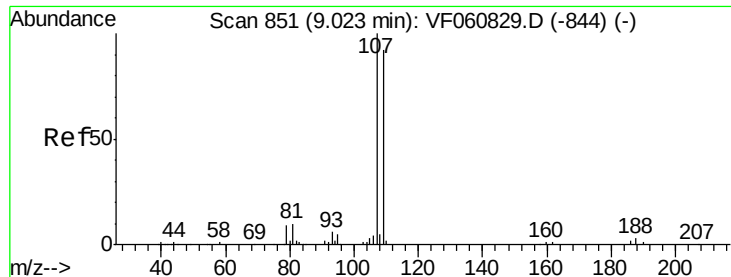
Tot Ion: 43 Resp: 280247
Ion Ratio Lower Upper
43 100
58 49.4 25.6 76.6



#60
Dibromochloromethane
Concen: 56.315 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion: 129 Resp: 123720
Ion Ratio Lower Upper
129 100
127 74.1 37.3 111.9





#61

1,2-Dibromoethane

Concen: 57.770 ug/l

RT: 9.00 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

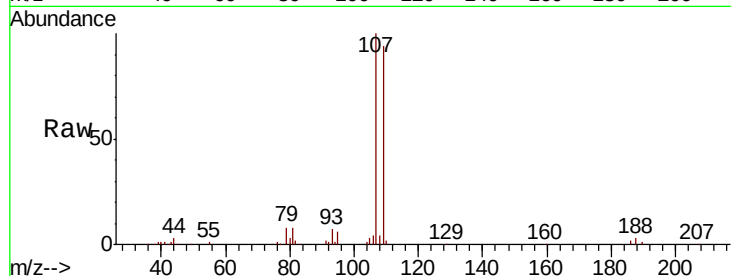
S49-0483MSD

Tot Ion:107 Resp: 92020

Ion Ratio Lower Upper

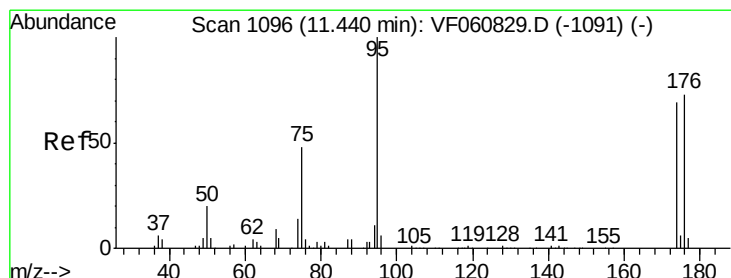
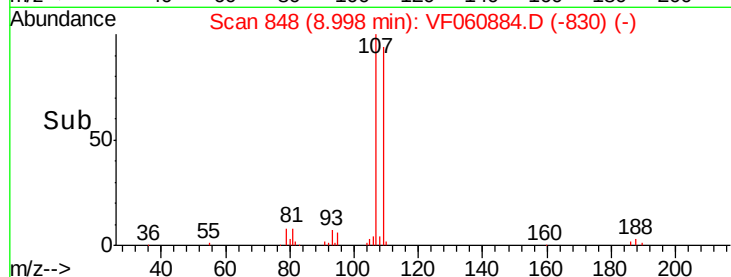
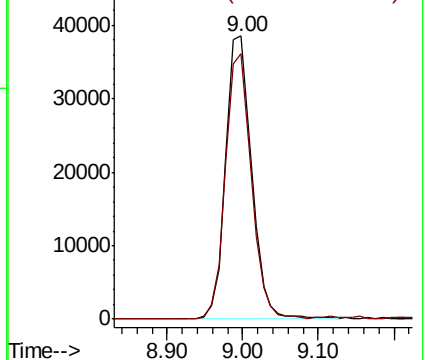
107 100

109 93.9 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.575 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

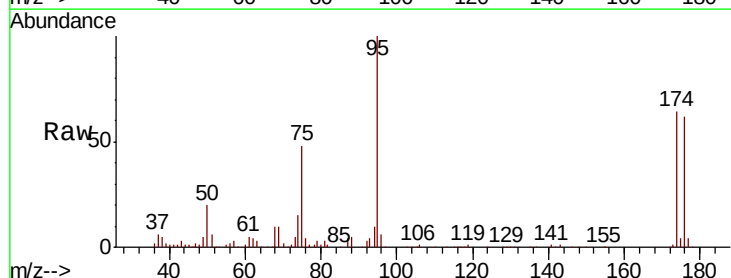
Tgt Ion: 95 Resp: 164165

Ion Ratio Lower Upper

95 100

174 64.1 0.0 138.2

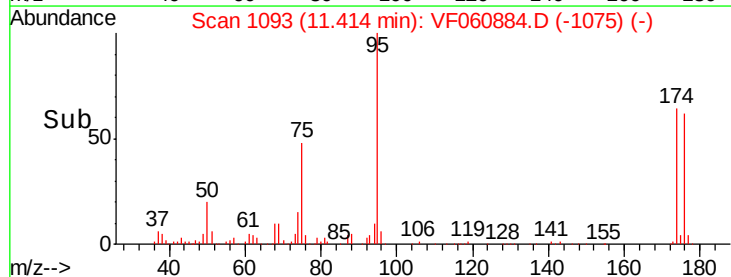
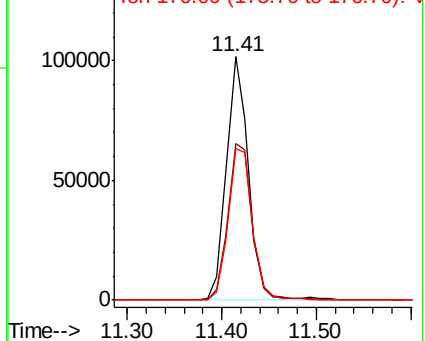
176 62.4 0.0 146.2

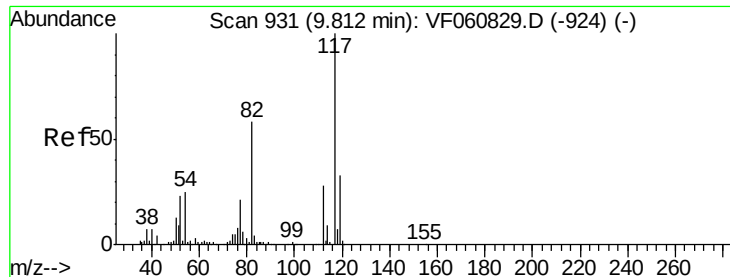


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

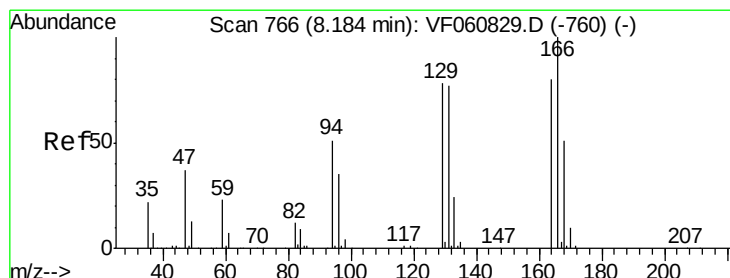
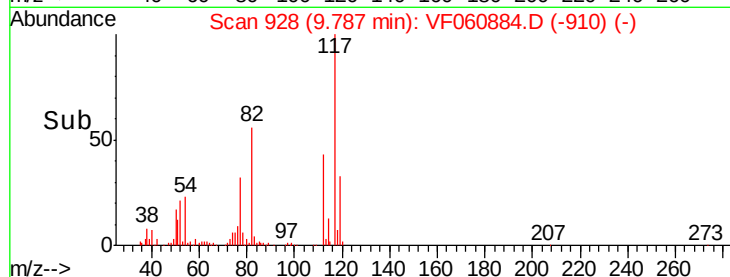
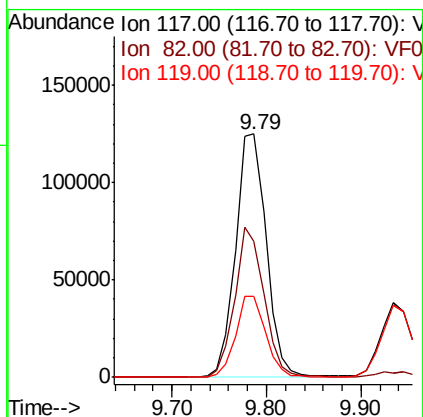
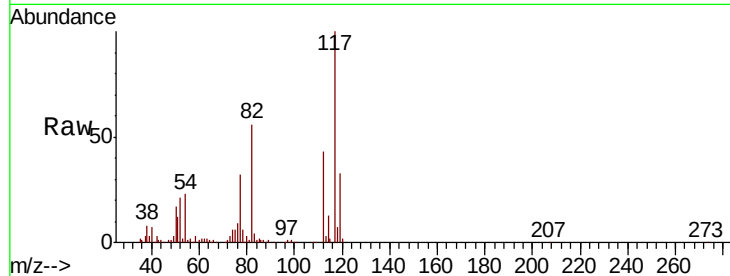




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

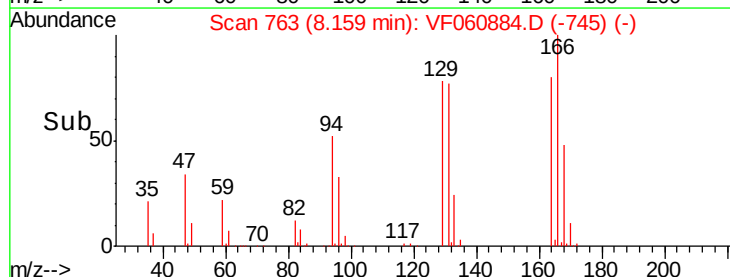
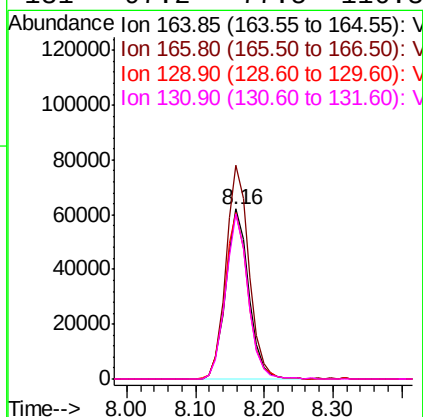
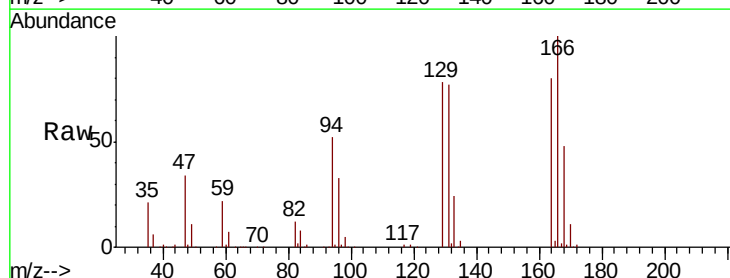
Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

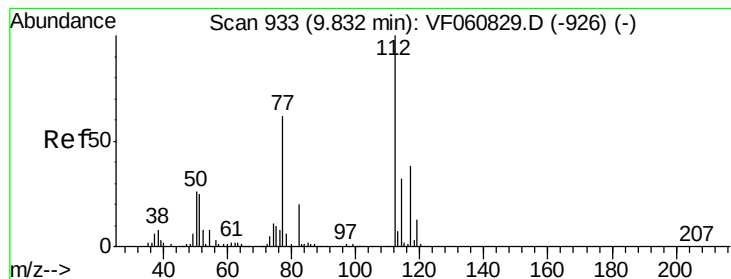
Tot Ion:117 Resp: 282740
Ion Ratio Lower Upper
117 100
82 56.0 46.6 69.8
119 33.3 26.4 39.6



#64
Tetrachloroethene
Concen: 66.353 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion:164 Resp: 143294
Ion Ratio Lower Upper
164 100
166 125.6 100.3 150.5
129 98.1 77.9 116.9
131 97.2 77.5 116.3





#65

Chlorobenzene

Concen: 52.308 ug/l

RT: 9.81 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

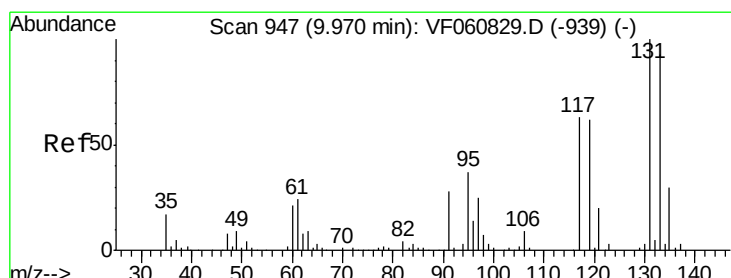
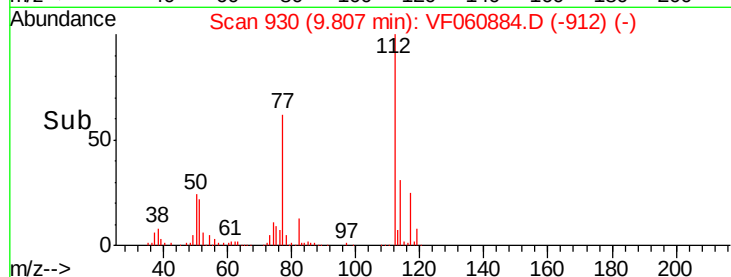
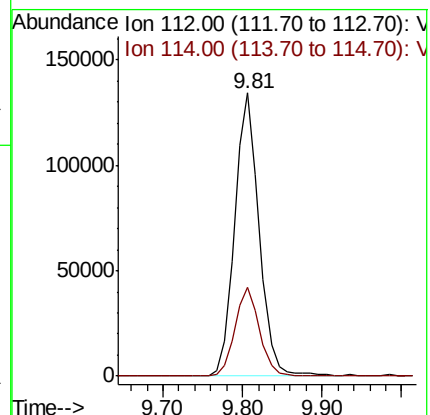
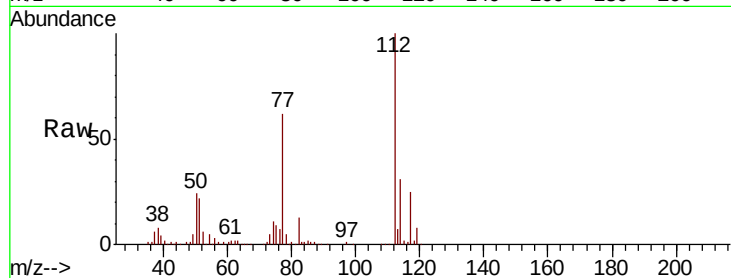
S49-0483MSD

Tot Ion:112 Resp: 287712

Ion Ratio Lower Upper

112 100

114 31.4 26.0 39.0



#66

1,1,1,2-Tetrachloroethane

Concen: 52.526 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.04 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

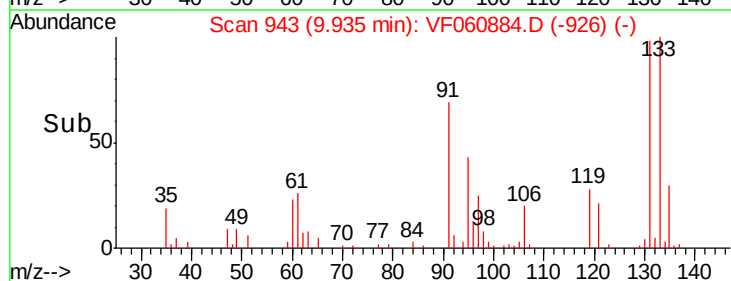
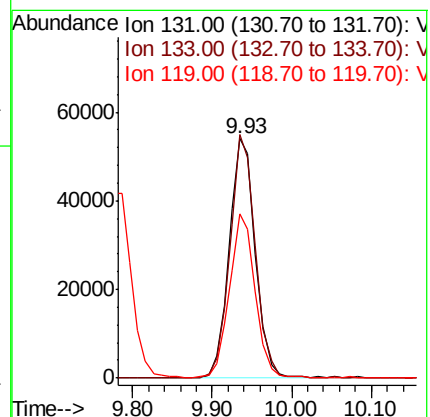
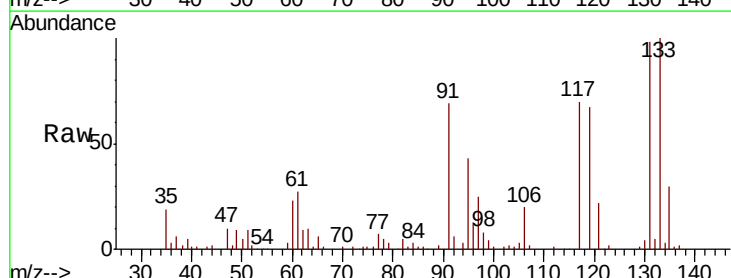
Tgt Ion:131 Resp: 124203

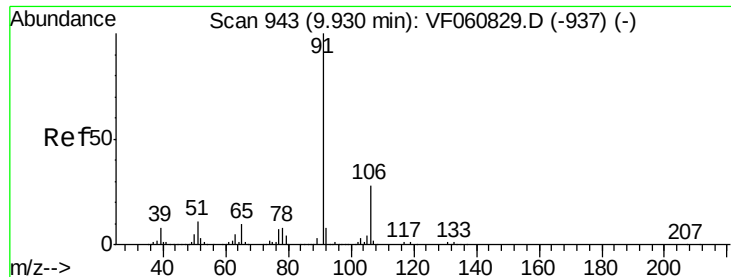
Ion Ratio Lower Upper

131 100

133 101.8 46.5 139.3

119 68.5 31.1 93.3





#67

Ethyl Benzene

Concen: 50.349 ug/l

RT: 9.91 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

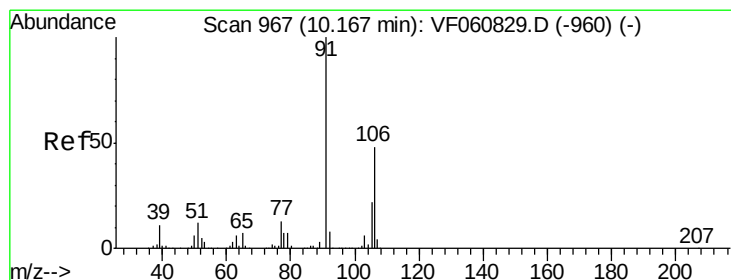
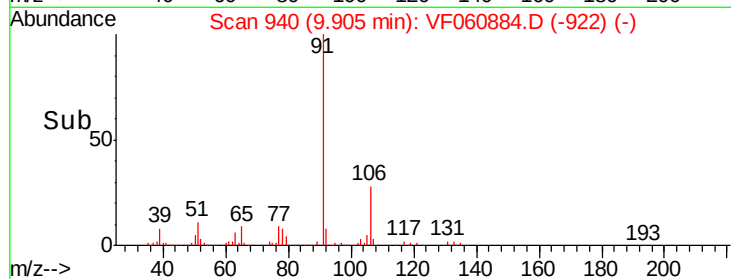
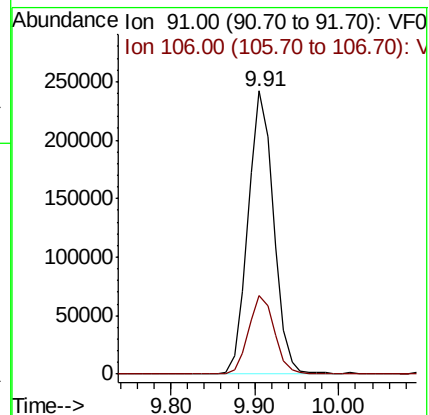
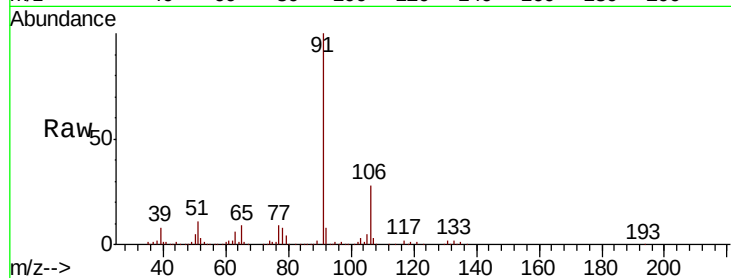
S49-0483MSD

Tot Ion: 91 Resp: 515579

Ion Ratio Lower Upper

91 100

106 27.8 22.2 33.2



#68

m/p-Xylenes

Concen: 96.445 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF060884.D

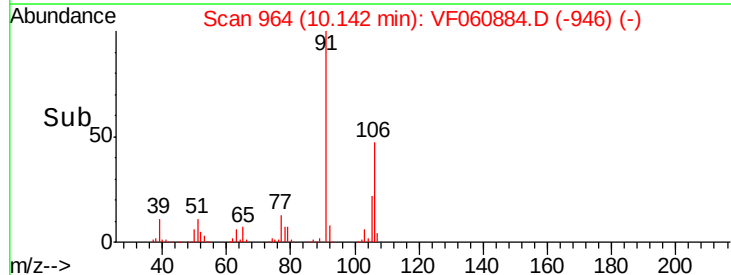
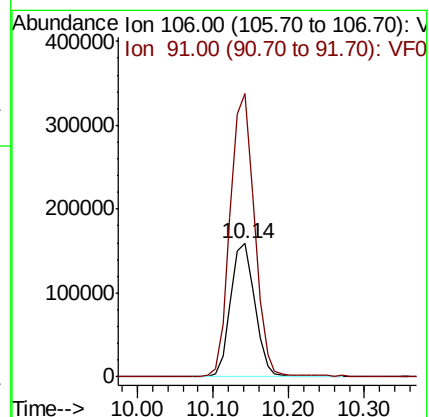
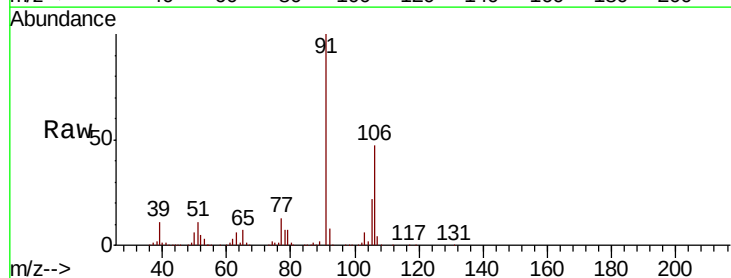
Acq: 29 Nov 2018 23:30

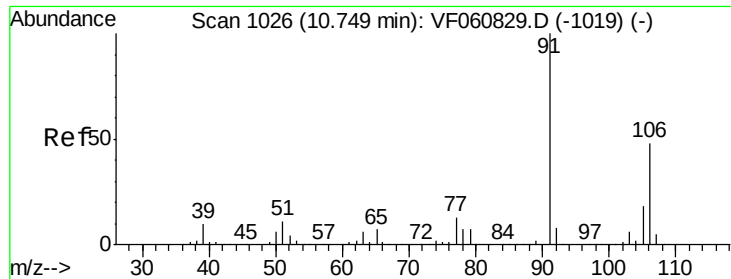
Tgt Ion: 106 Resp: 355202

Ion Ratio Lower Upper

106 100

91 212.6 166.7 250.1

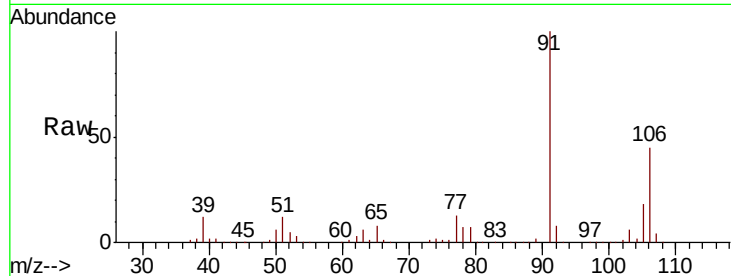




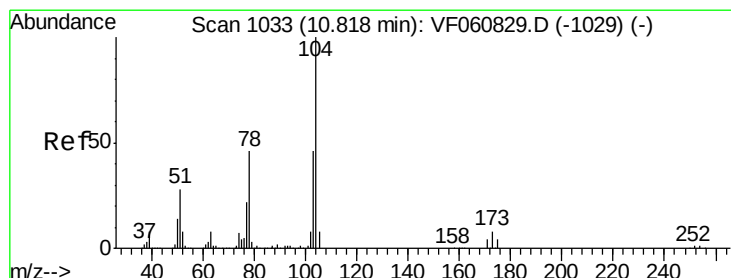
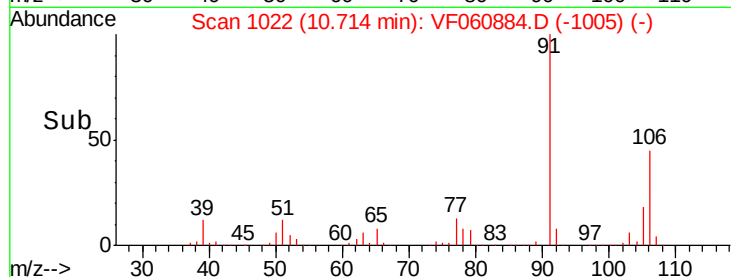
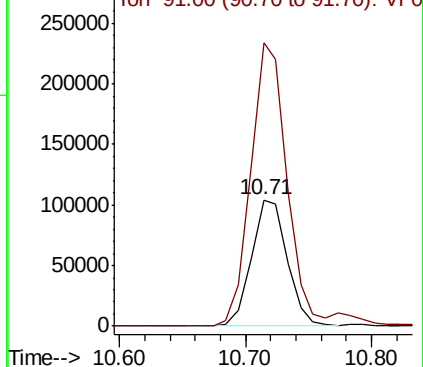
#69
o-Xylene
Concen: 50.770 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.04 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

Tot Ion:106 Resp: 206188
Ion Ratio Lower Upper
106 100
91 223.8 104.8 314.6

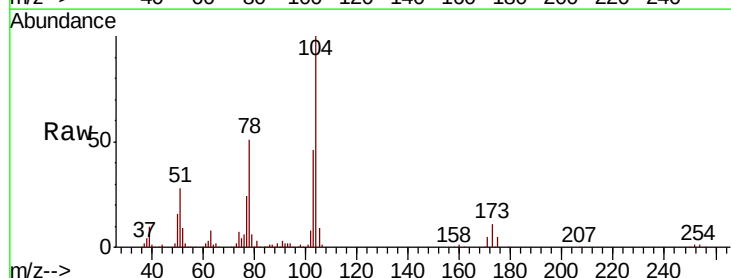


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

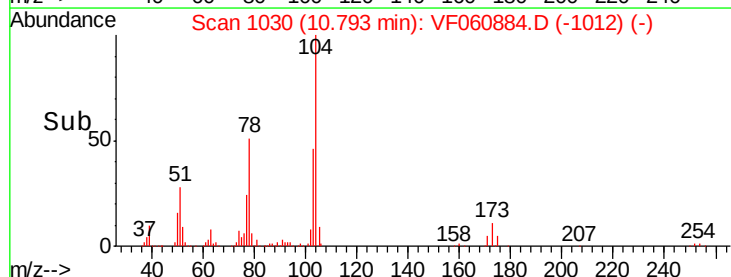
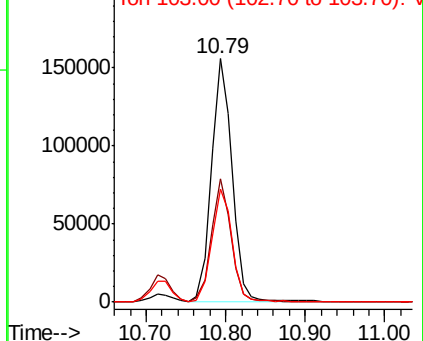


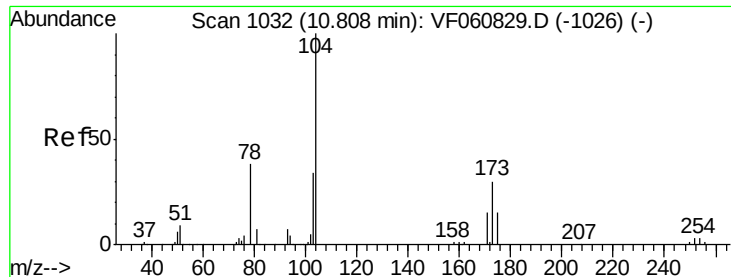
#70
Styrene
Concen: 50.600 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion:104 Resp: 284864
Ion Ratio Lower Upper
104 100
78 50.6 37.3 55.9
103 46.2 36.8 55.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 57.081 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

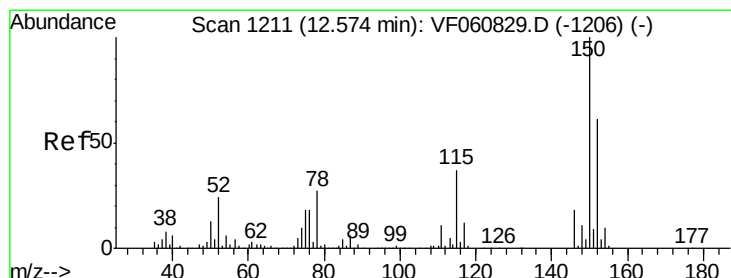
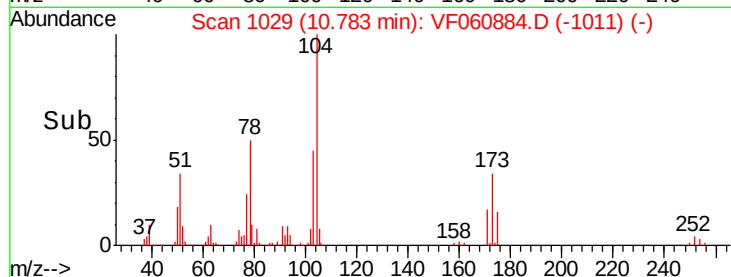
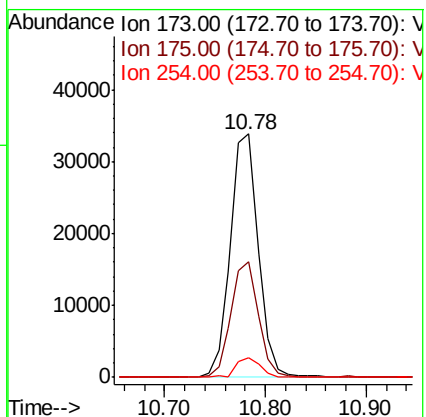
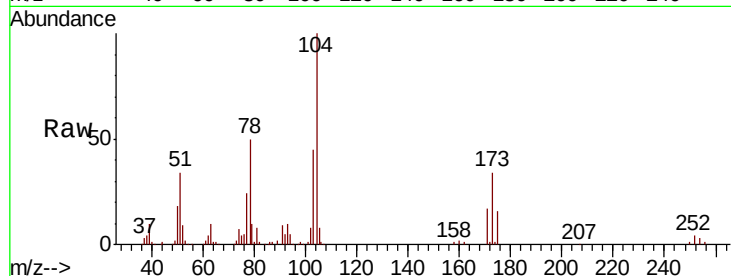
Tot Ion:173 Resp: 65196

Ion Ratio Lower Upper

173 100

175 47.3 25.5 76.5

254 8.1 7.5 11.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

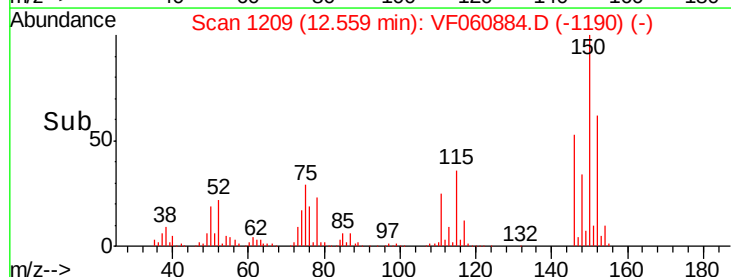
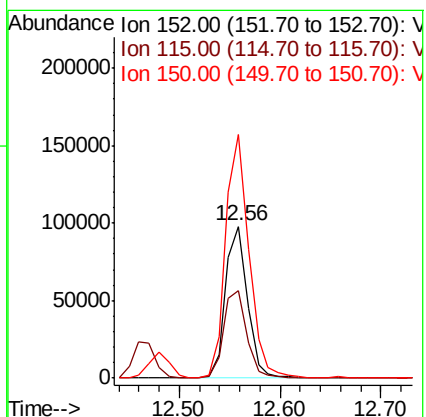
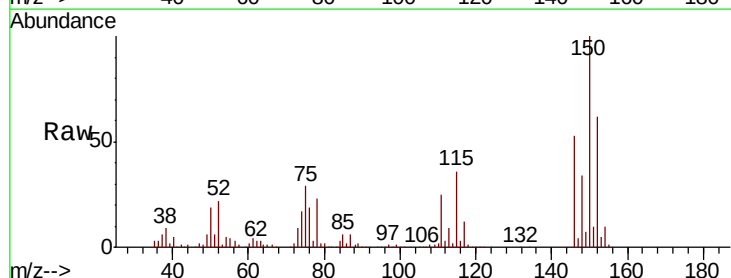
Tgt Ion:152 Resp: 149826

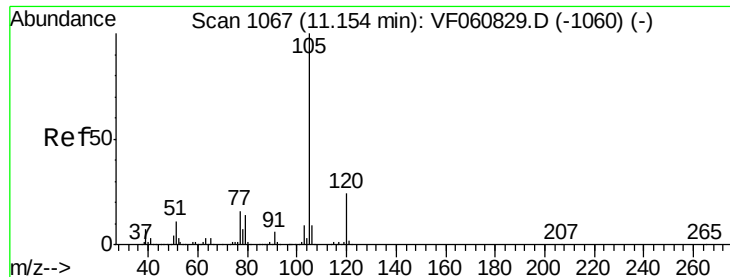
Ion Ratio Lower Upper

152 100

115 57.5 30.1 90.5

150 160.5 0.0 327.6





#73

Isopropylbenzene

Concen: 51.525 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

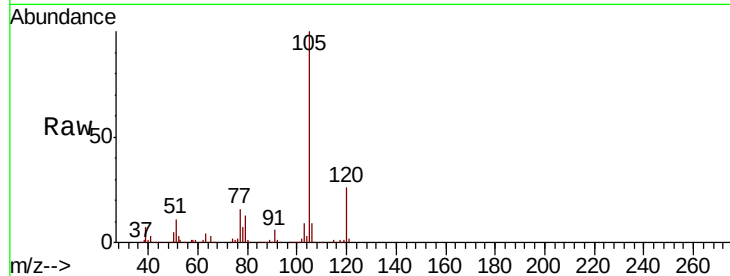
S49-0483MSD

Tot Ion:105 Resp: 610063

Ion Ratio Lower Upper

105 100

120 26.1 12.2 36.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

400000

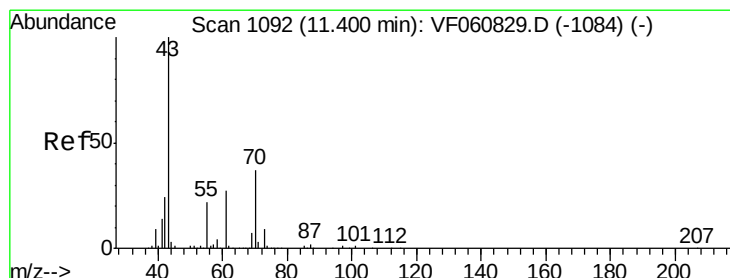
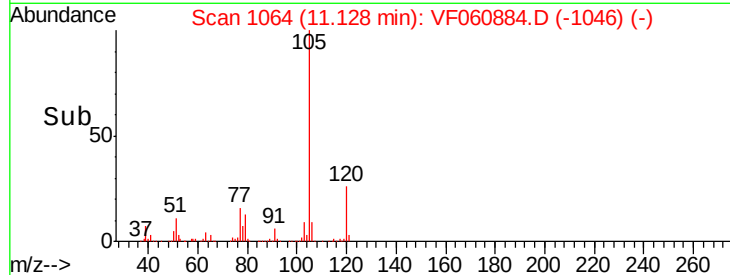
300000

200000

100000

0

Time--> 11.00 11.20



#74

N-ethyl acetate

Concen: 58.454 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Tgt Ion: 43 Resp: 159815

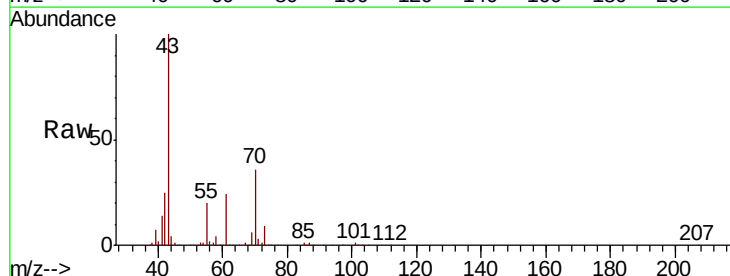
Ion Ratio Lower Upper

43 100

70 36.2 29.6 44.4

55 20.4 17.2 25.8

61 24.0 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

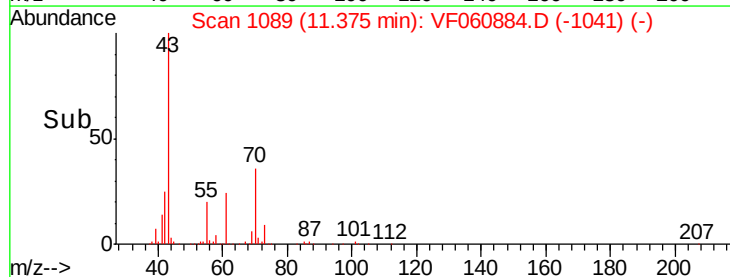
150000

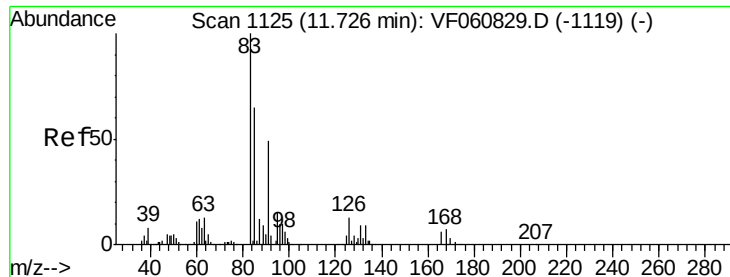
100000

50000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 61.042 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

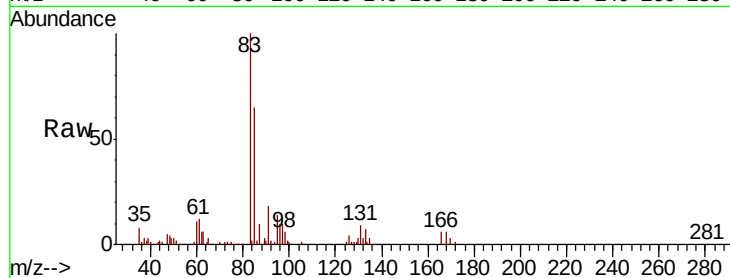
Tot Ion: 83 Resp: 118948

Ion Ratio Lower Upper

83 100

131 9.1 4.7 14.1

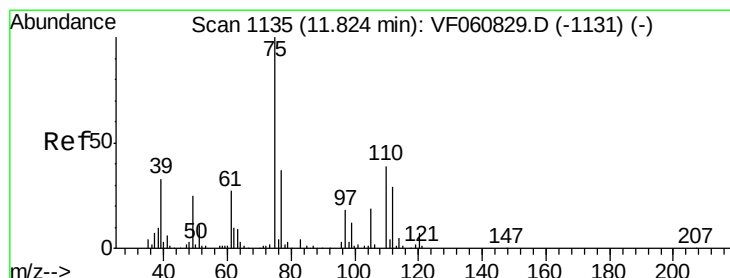
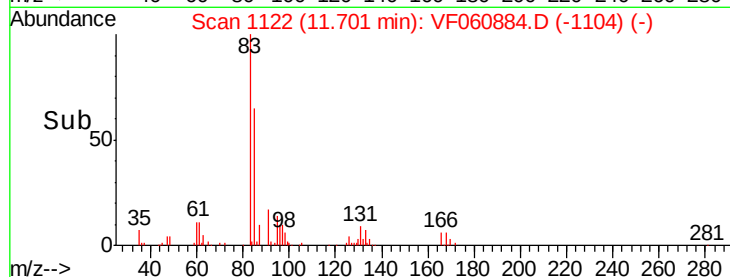
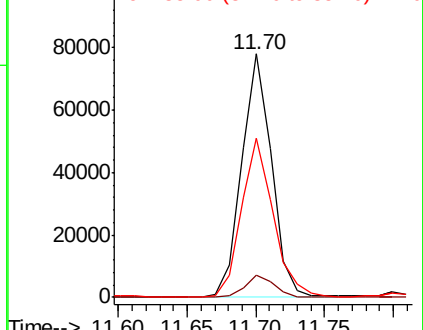
85 65.3 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 62.197 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF060884.D

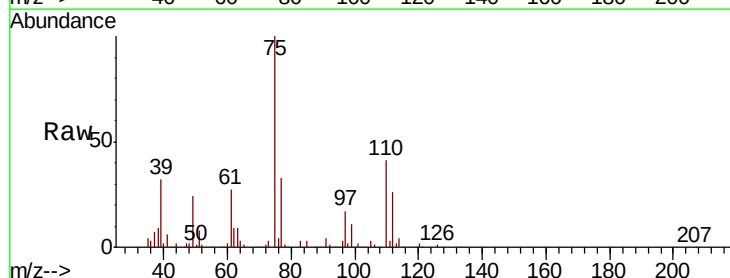
Acq: 29 Nov 2018 23:30

Tgt Ion: 75 Resp: 88094

Ion Ratio Lower Upper

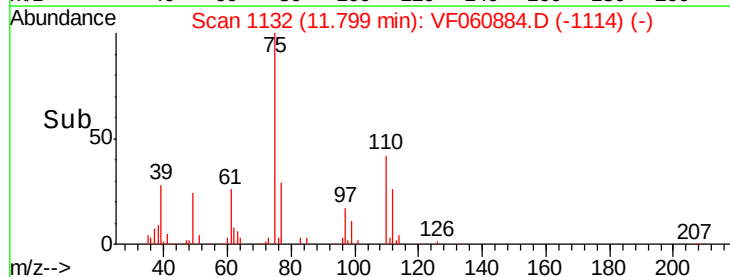
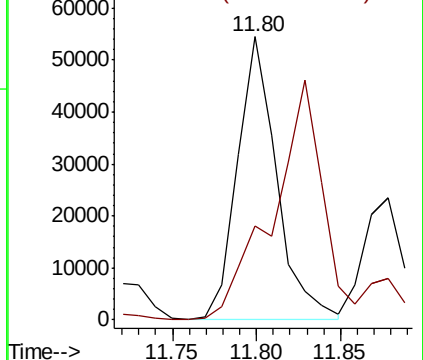
75 100

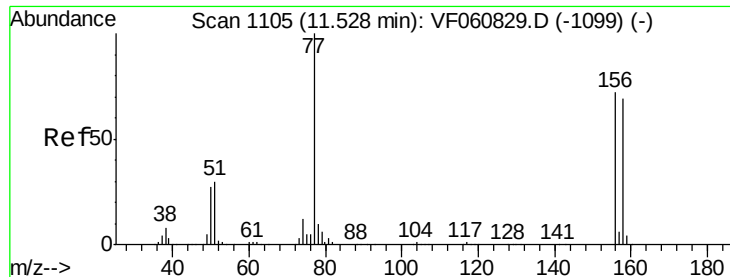
77 33.2 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 50.696 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

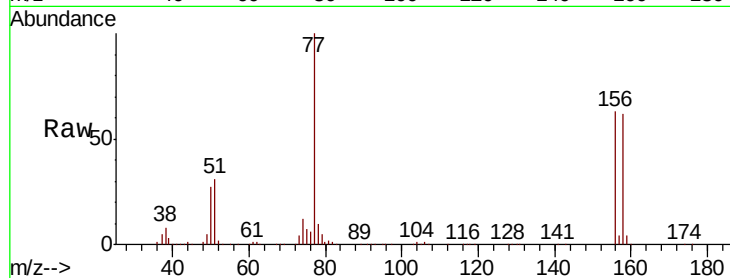
Tot Ion:156 Resp: 131596

Ion Ratio Lower Upper

156 100

77 160.0 69.7 209.0

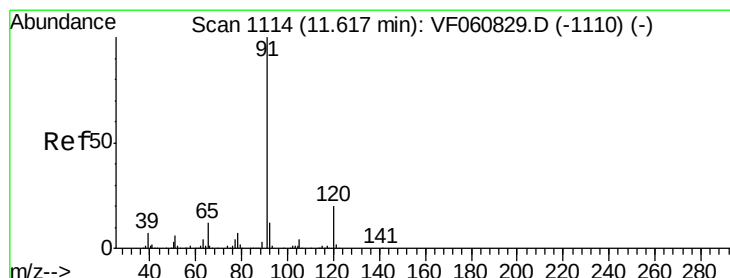
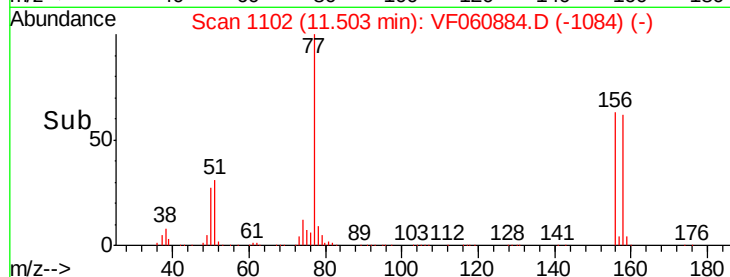
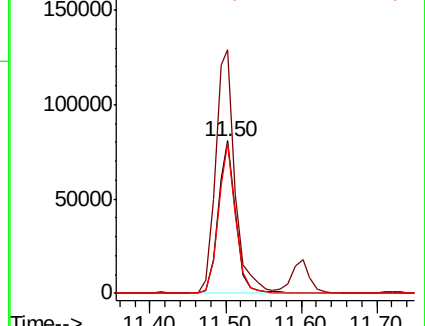
158 98.7 47.8 143.4



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: 48.788 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF060884.D

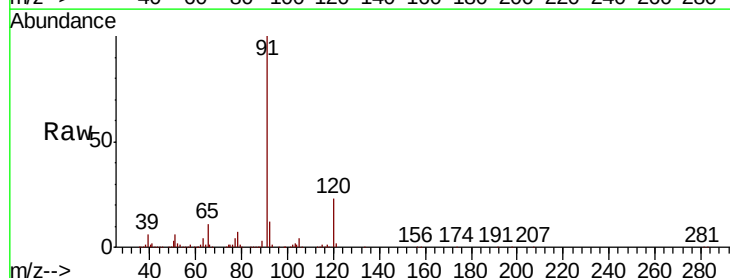
Acq: 29 Nov 2018 23:30

Tgt Ion: 91 Resp: 676476

Ion Ratio Lower Upper

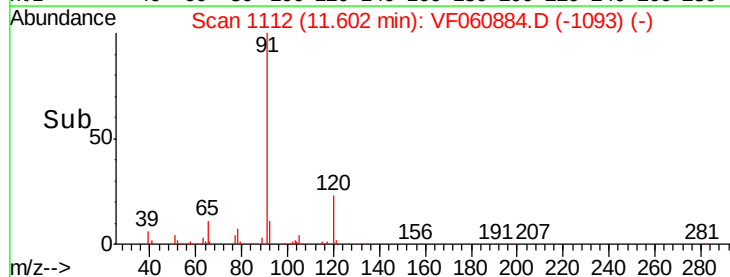
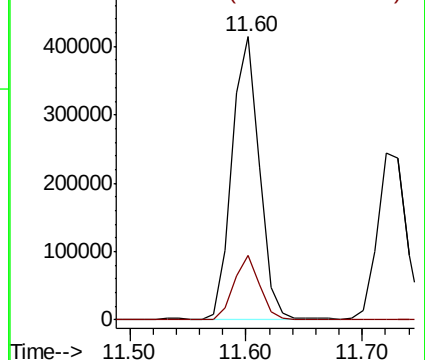
91 100

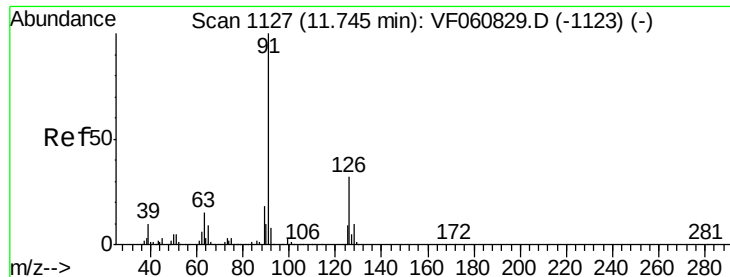
120 22.8 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 52.297 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

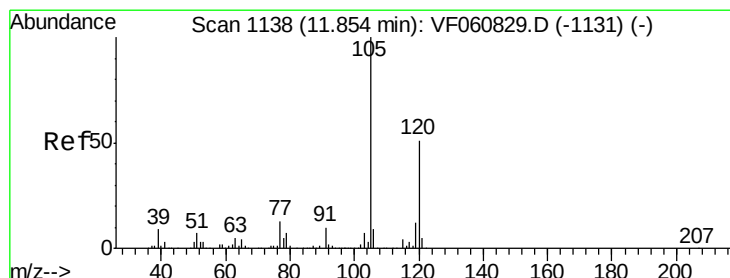
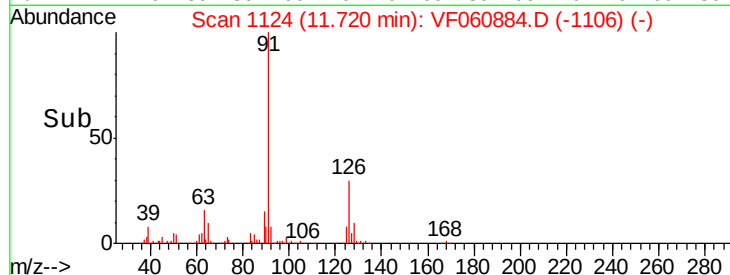
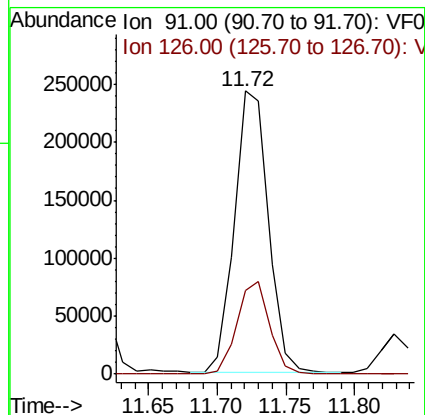
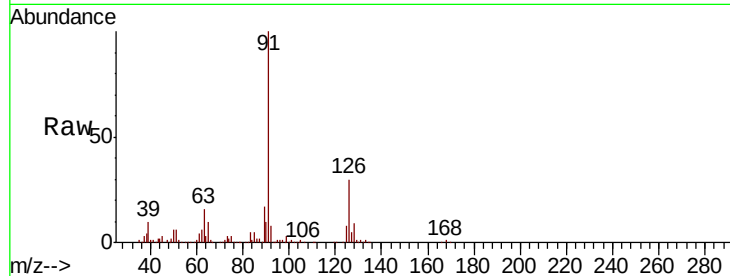
S49-0483MSD

Tot Ion: 91 Resp: 415781

Ion Ratio Lower Upper

91 100

126 29.6 15.9 47.6



#80

1,3,5-Trimethylbenzene

Concen: 48.986 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF060884.D

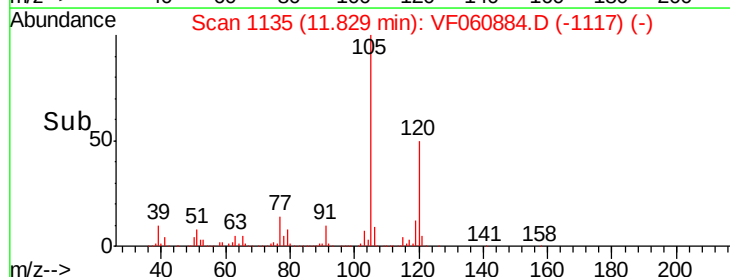
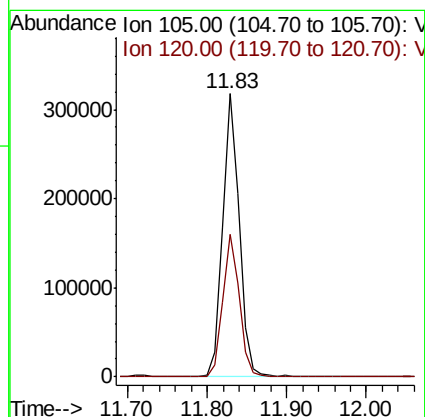
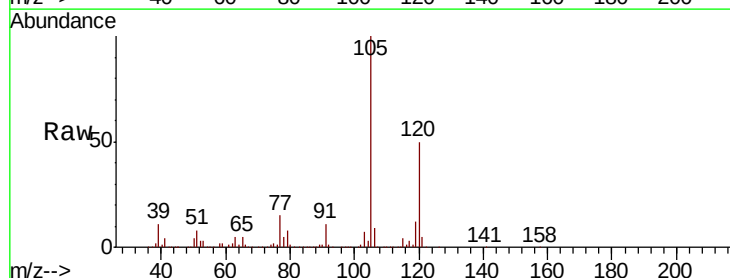
Acq: 29 Nov 2018 23:30

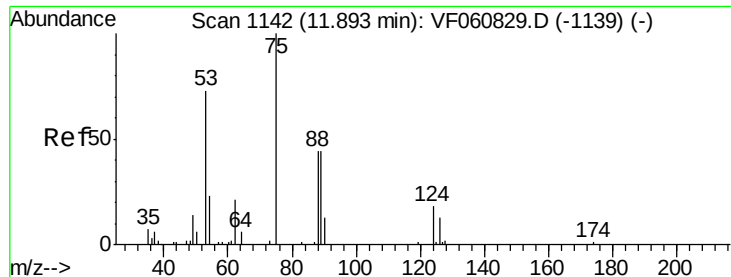
Tgt Ion:105 Resp: 470847

Ion Ratio Lower Upper

105 100

120 50.4 25.8 77.3

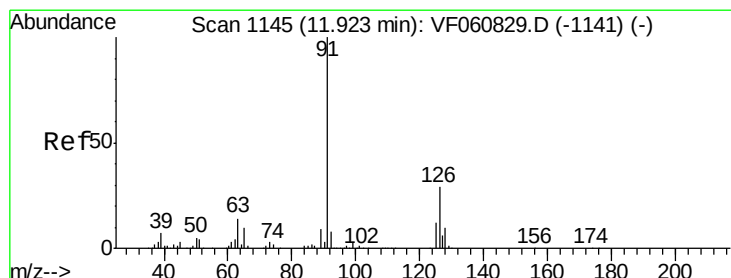
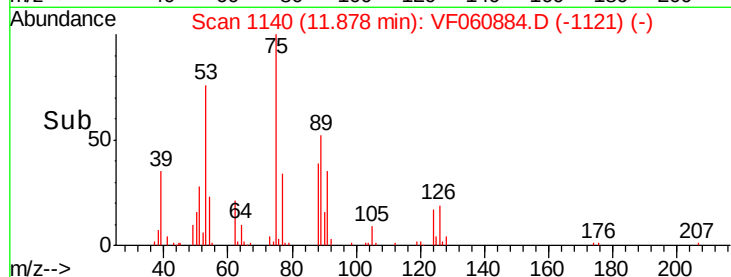
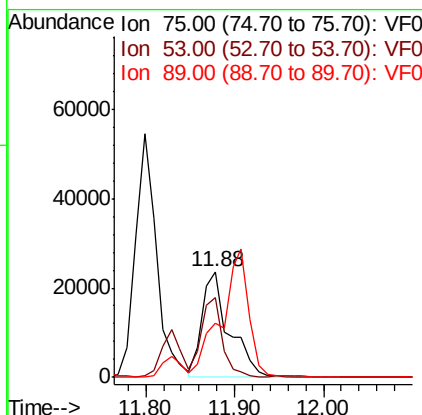
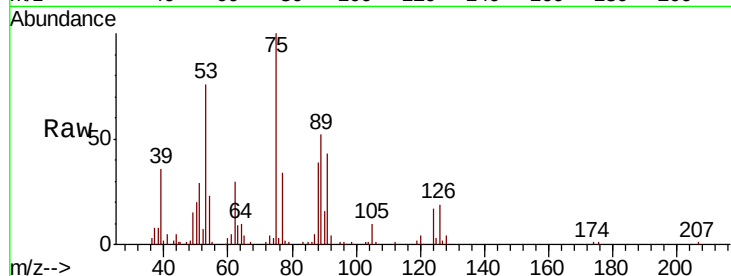




#81
trans-1,4-Dichloro-2-butene
Concen: 73.163 ug/l
RT: 11.88 min Scan# 1140
Delta R.T. -0.02 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

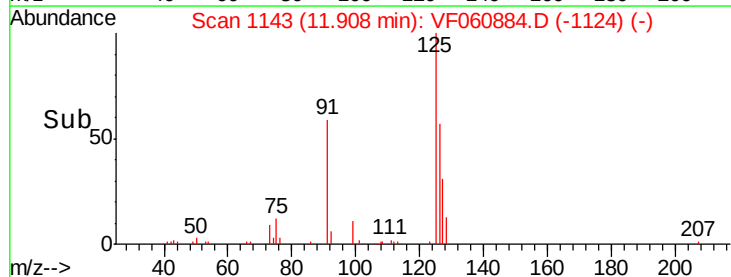
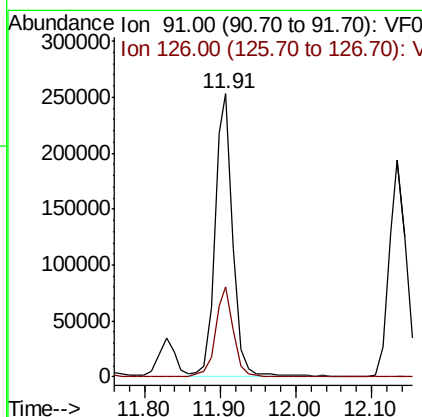
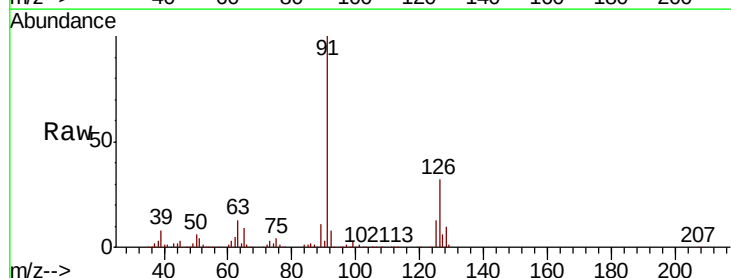
Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

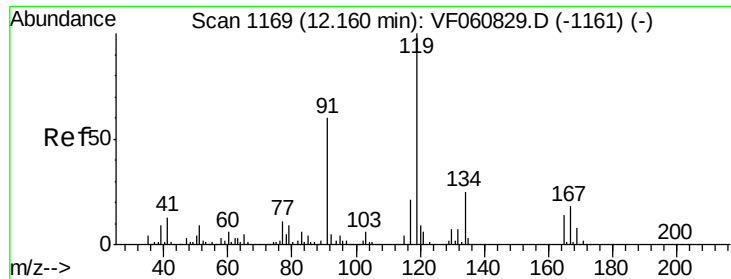
Tot Ion: 75 Resp: 50773
Ion Ratio Lower Upper
75 100
53 75.7 65.9 98.9
89 51.9 38.8 58.2



#82
4-Chlorotoluene
Concen: 49.517 ug/l
RT: 11.91 min Scan# 1143
Delta R.T. -0.02 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion: 91 Resp: 414300
Ion Ratio Lower Upper
91 100
126 31.9 14.8 44.4

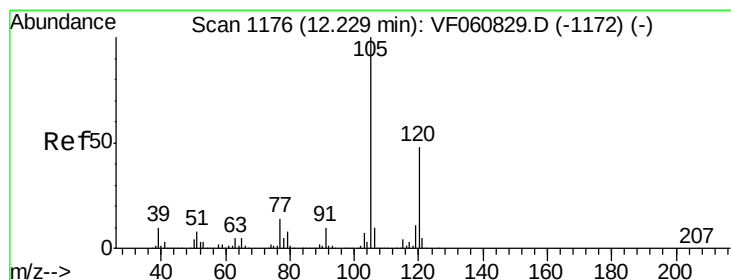
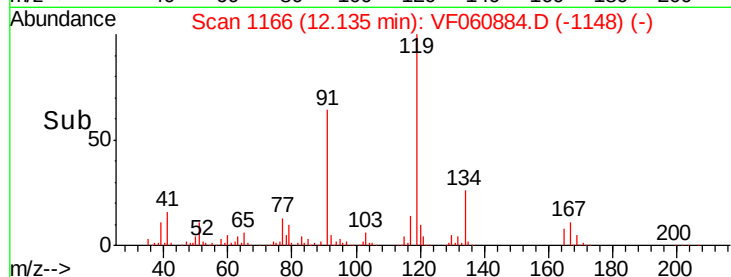
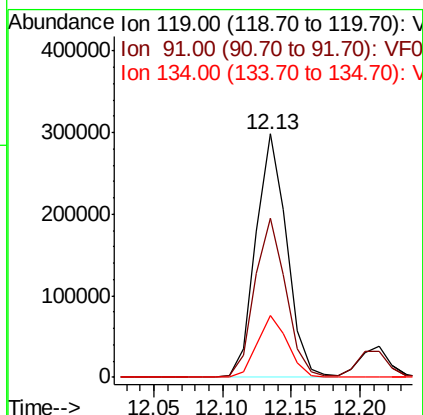
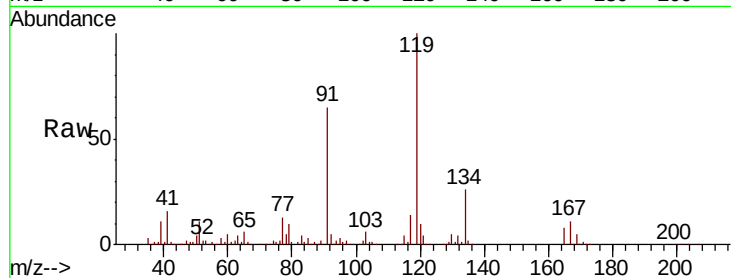




#83
 tert-Butylbenzene
 Concen: 47.986 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

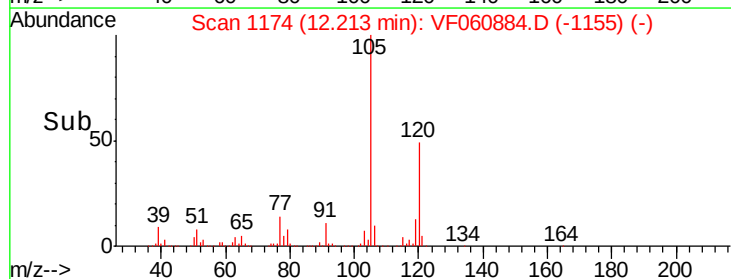
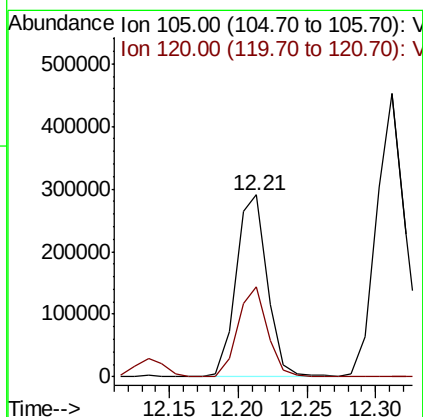
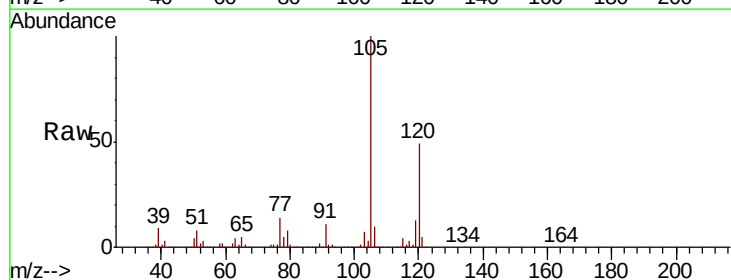
Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

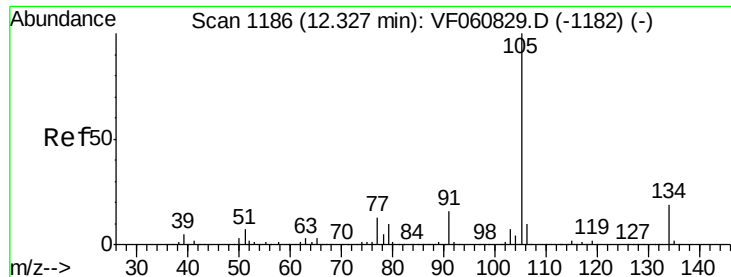
Tot Ion:119 Resp: 469827
 Ion Ratio Lower Upper
 119 100
 91 65.2 30.1 90.3
 134 25.6 12.6 37.8



#84
 1,2,4-Trimethylbenzene
 Concen: 47.735 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion:105 Resp: 457923
 Ion Ratio Lower Upper
 105 100
 120 49.5 23.8 71.5

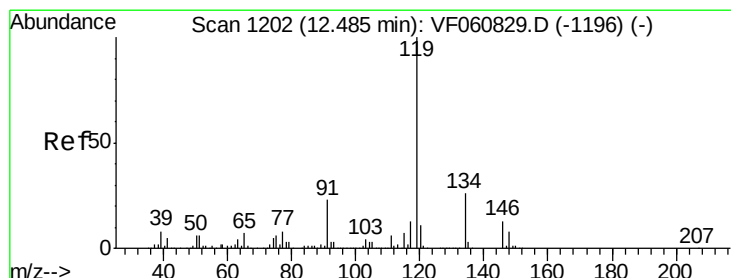
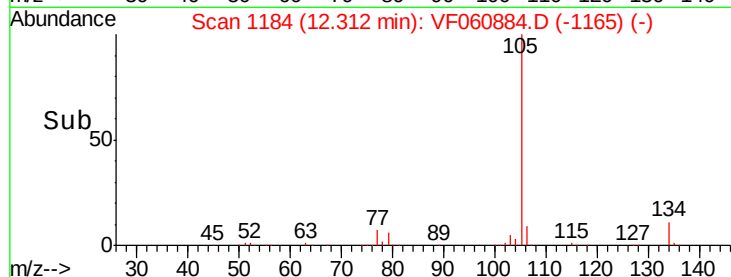
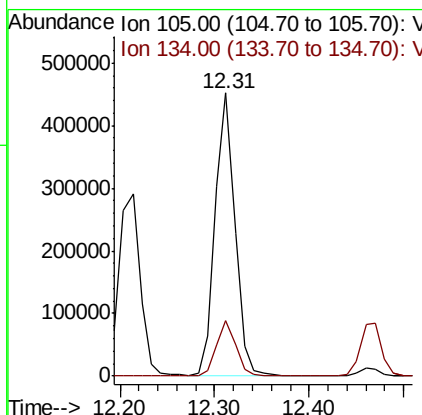
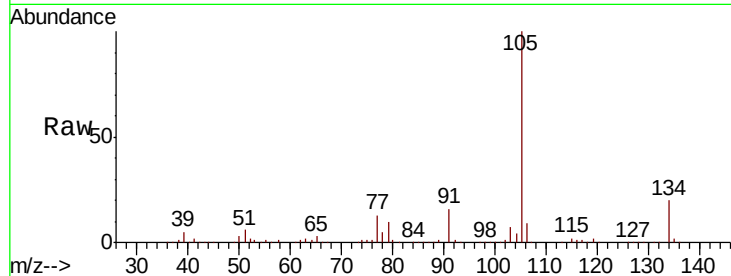




#85
 sec-Butylbenzene
 Concen: 49.144 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

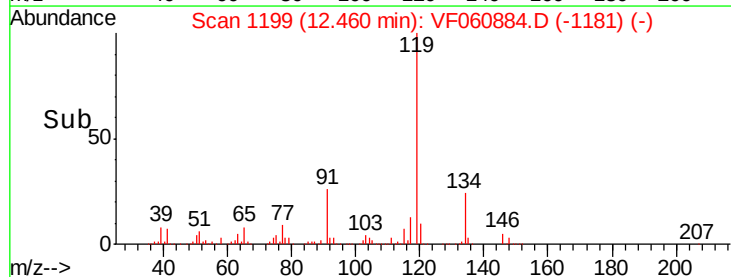
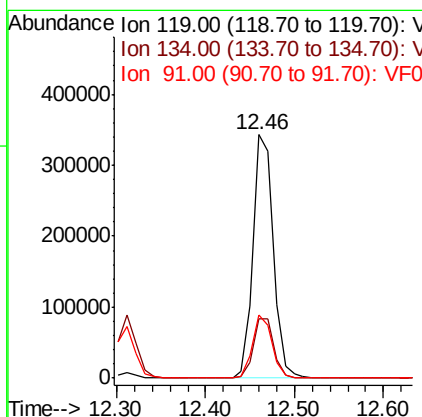
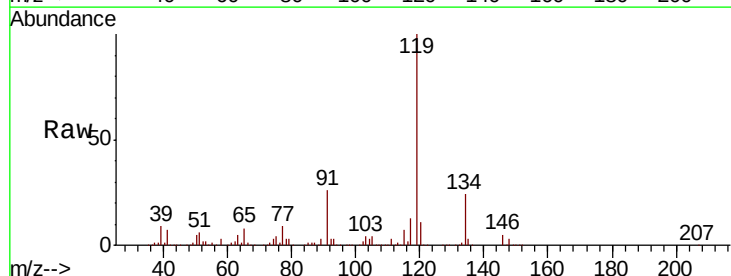
Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

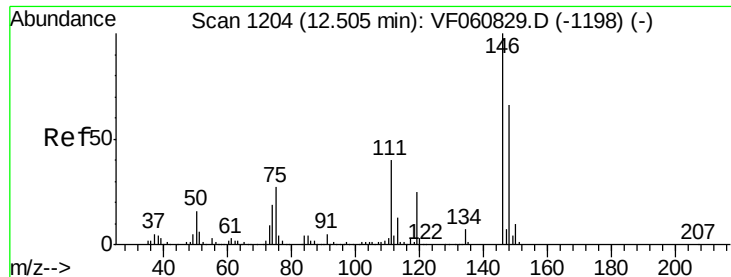
Tot Ion:105 Resp: 658691
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 47.717 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion:119 Resp: 536213
 Ion Ratio Lower Upper
 119 100
 134 24.2 12.9 38.6
 91 26.0 11.8 35.3





#87

1,3-Dichlorobenzene

Concen: 48.395 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

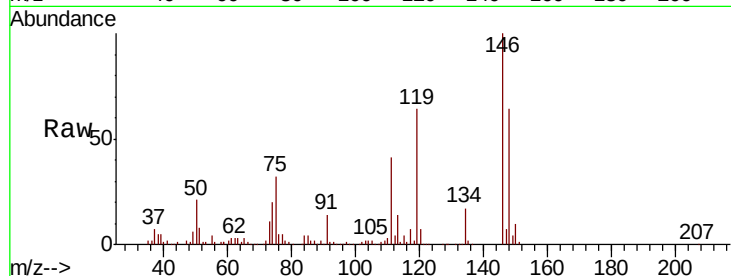
Tot Ion:146 Resp: 238957

Ion Ratio Lower Upper

146 100

111 41.4 20.0 59.9

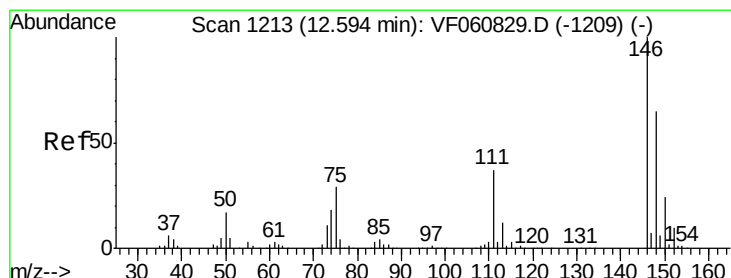
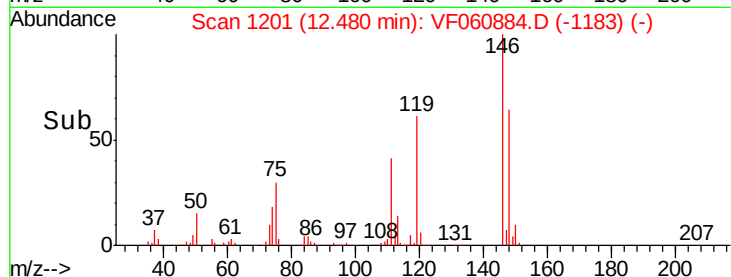
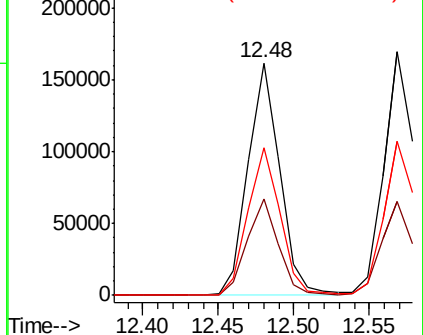
148 63.6 32.9 98.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 51.547 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

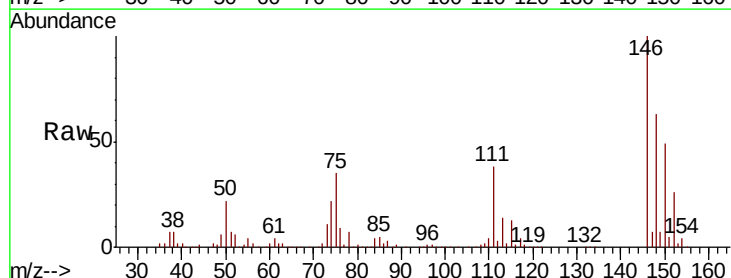
Tgt Ion:146 Resp: 248034

Ion Ratio Lower Upper

146 100

111 38.5 18.9 56.7

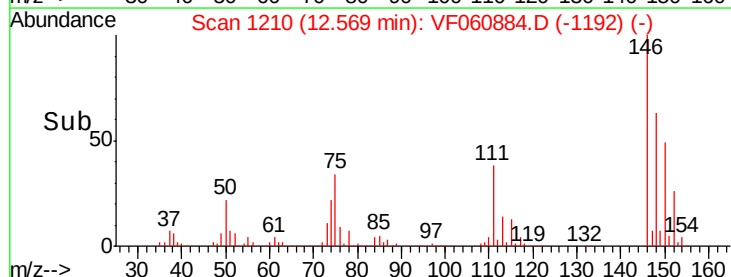
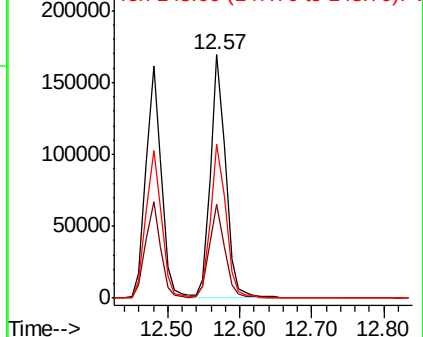
148 63.1 32.3 96.9

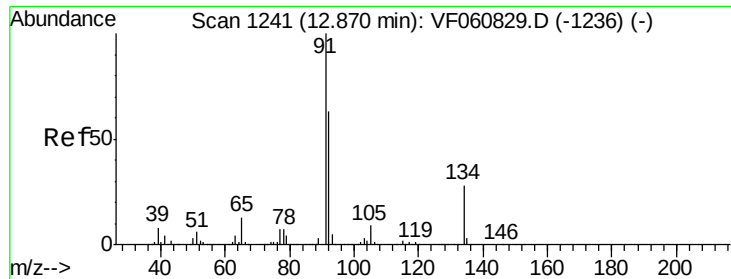


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 46.234 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.03 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

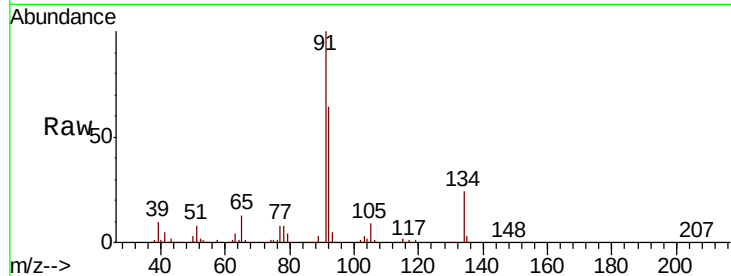
Tot Ion: 91 Resp: 525342

Ion Ratio Lower Upper

91 100

92 63.6 31.6 94.7

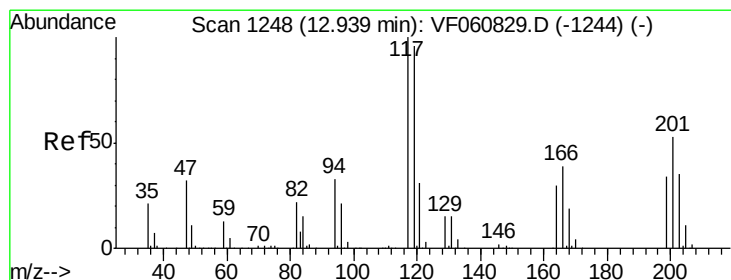
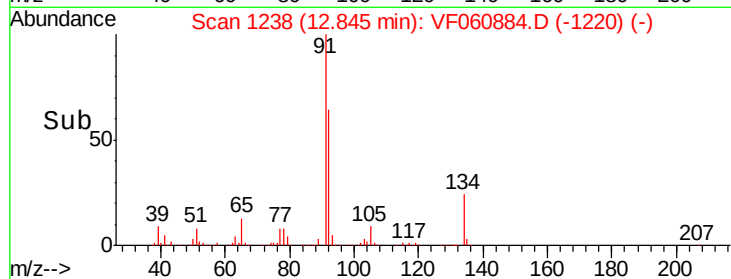
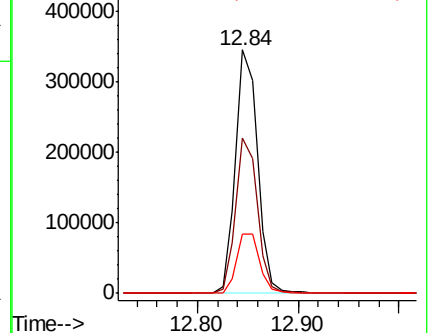
134 24.3 13.8 41.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 51.246 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VF060884.D

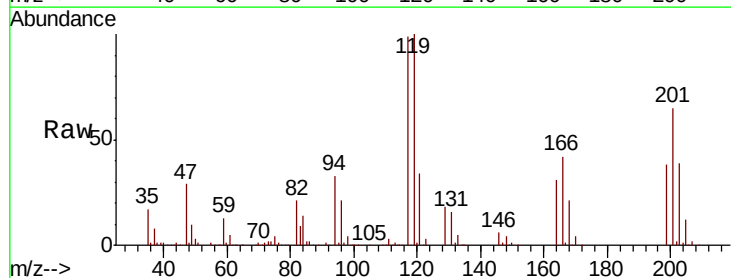
Acq: 29 Nov 2018 23:30

Tgt Ion: 117 Resp: 138669

Ion Ratio Lower Upper

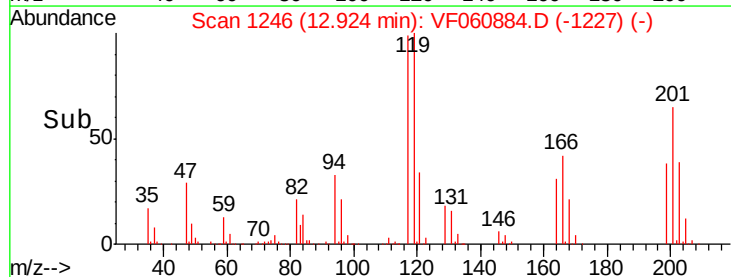
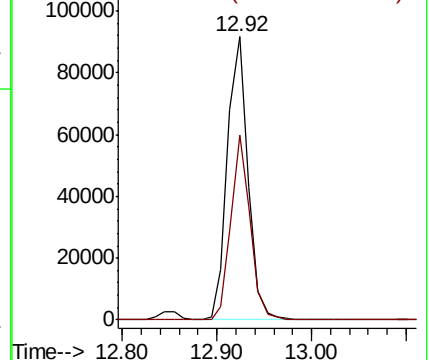
117 100

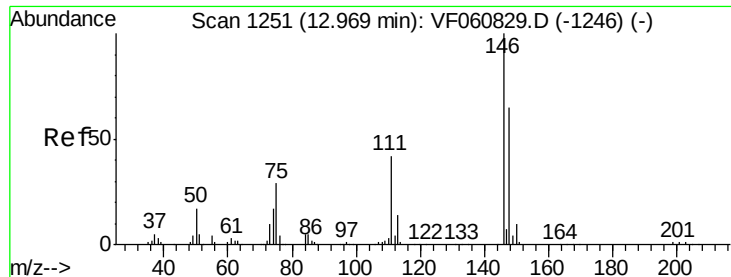
201 65.1 26.7 80.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

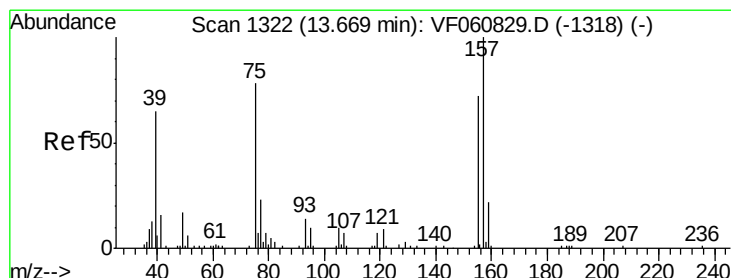
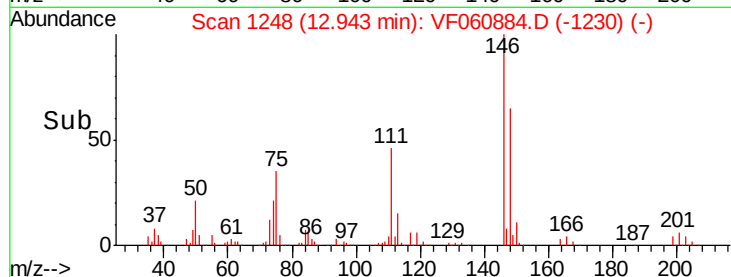
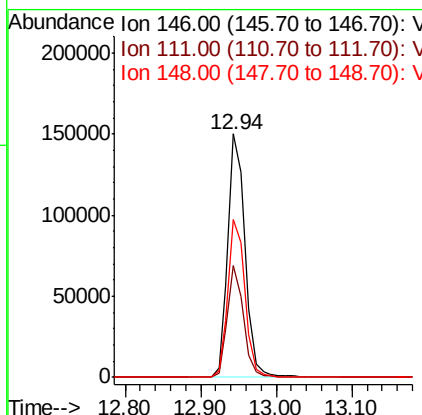
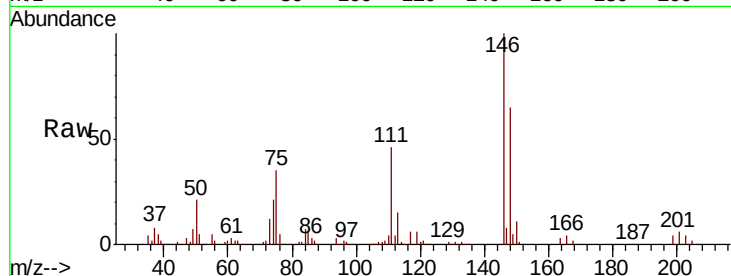




#91
 1,2-Dichlorobenzene
 Concen: 50.277 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

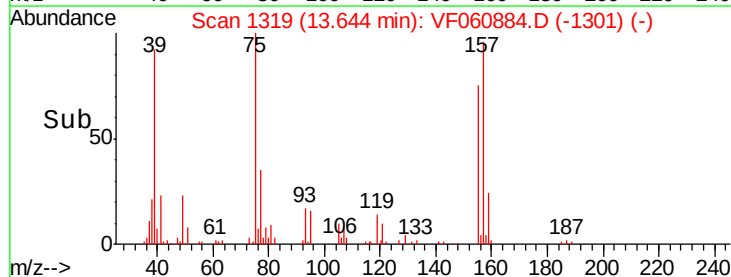
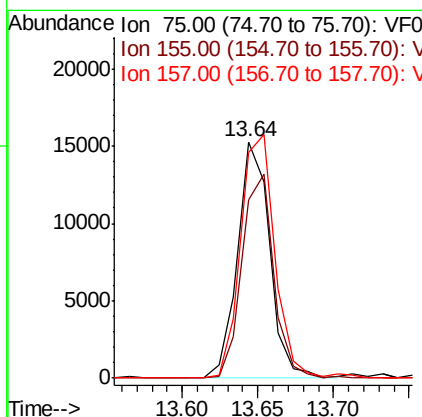
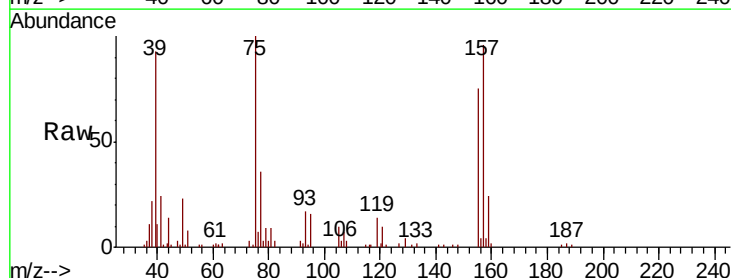
Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

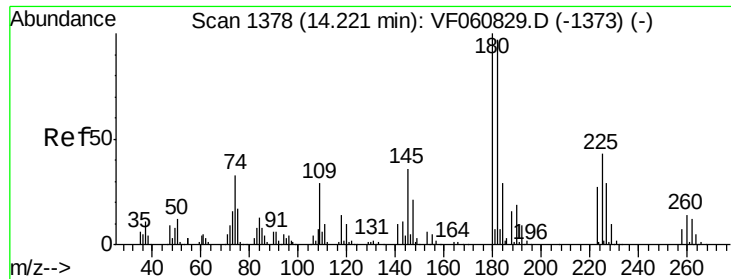
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.1	21.2	63.6
148	64.9	32.5	97.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 59.794 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.03 min
 Lab File: VF060884.D
 Acq: 29 Nov 2018 23:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.3	45.6	136.9
157	95.8	63.8	191.5





#93

1,2,4-Trichlorobenzene

Concen: 49.182 ug/l

RT: 14.21 min Scan# 1376

Delta R.T. -0.02 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

Instrument :

MSVOA_F

ClientSampleId :

S49-0483MSD

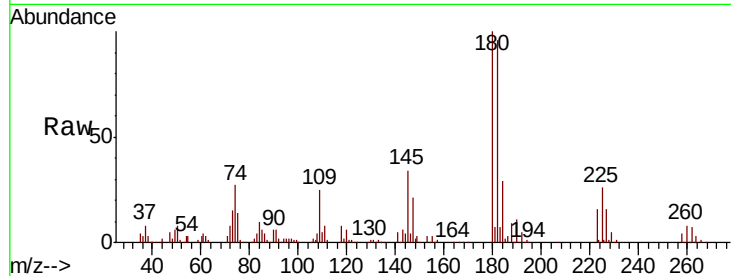
Tot Ion:180 Resp: 160684

Ion Ratio Lower Upper

180 100

182 96.2 48.5 145.5

145 34.1 18.1 54.3

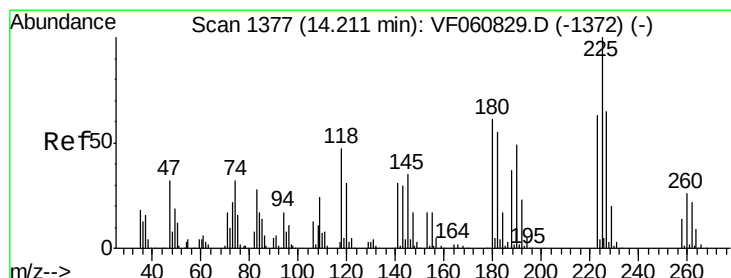
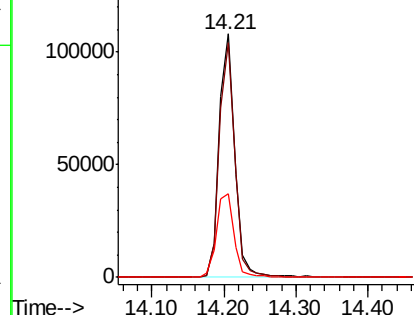
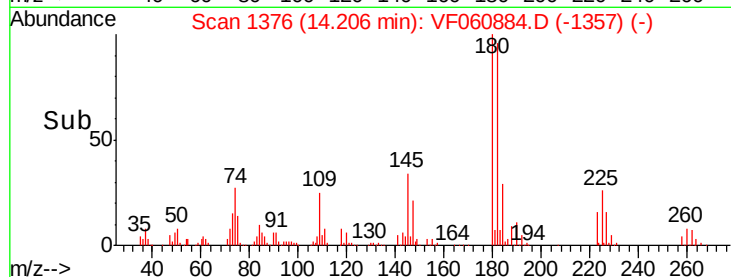


Abundance

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: 42.384 ug/l

RT: 14.20 min Scan# 1375

Delta R.T. -0.02 min

Lab File: VF060884.D

Acq: 29 Nov 2018 23:30

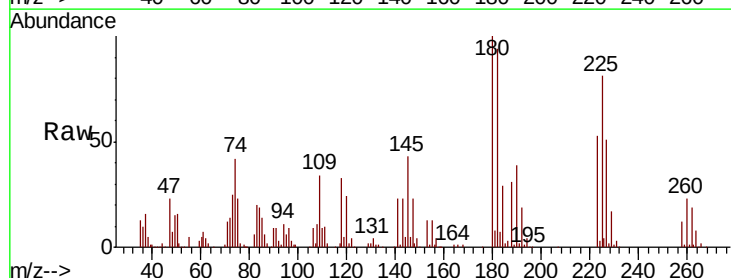
Tgt Ion:225 Resp: 92309

Ion Ratio Lower Upper

225 100

223 66.1 31.4 94.3

227 63.6 32.5 97.5

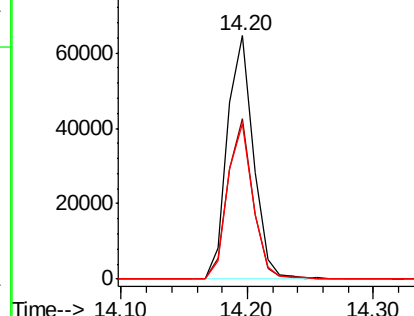
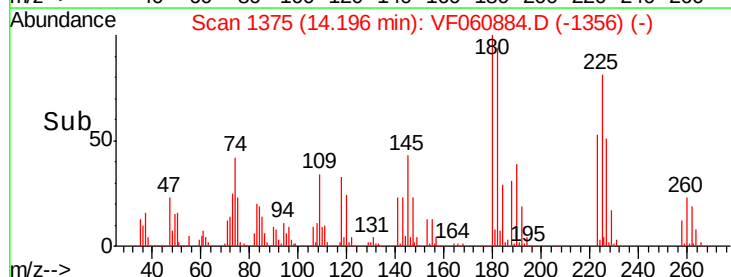


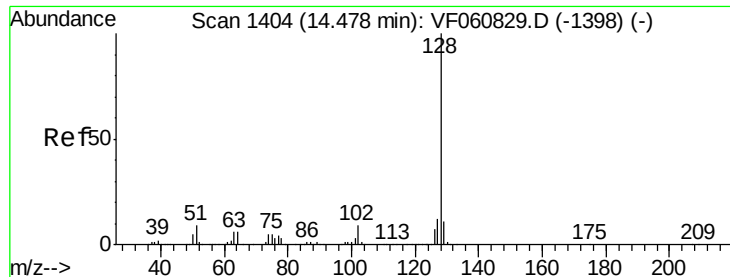
Abundance

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

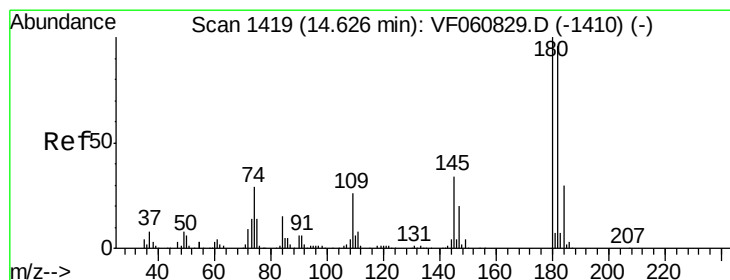
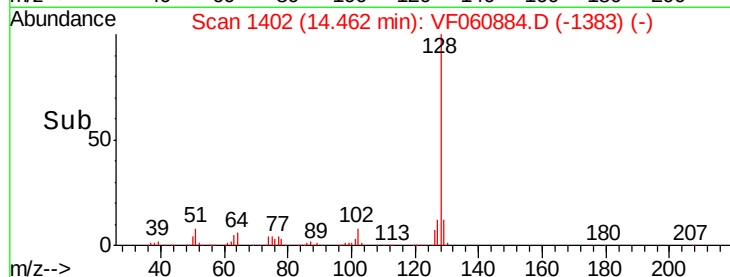
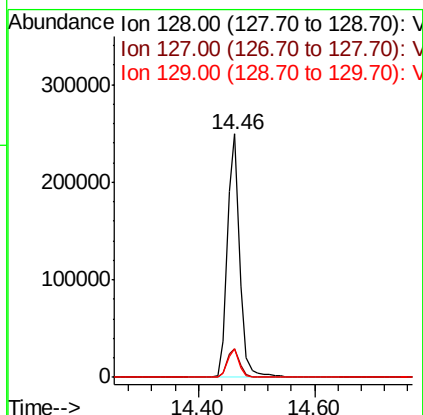
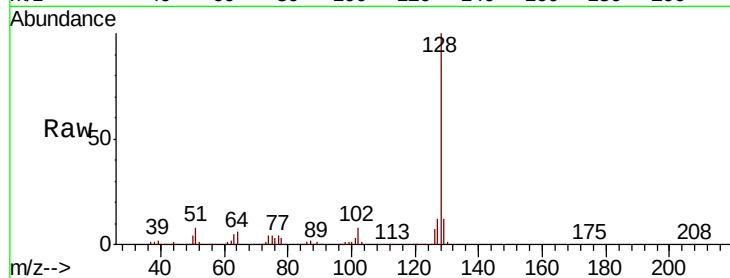




#95
Naphthalene
Concen: 58.535 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Instrument :
MSVOA_F
ClientSampleId :
S49-0483MSD

Tot Ion:128 Resp: 367400
Ion Ratio Lower Upper
128 100
127 11.8 9.9 14.9
129 11.5 9.1 13.7



#96
1,2,3-Trichlorobenzene
Concen: 52.784 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.02 min
Lab File: VF060884.D
Acq: 29 Nov 2018 23:30

Tgt Ion:180 Resp: 160124
Ion Ratio Lower Upper
180 100
182 99.2 47.9 143.8
145 33.6 17.2 51.5

