

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051719\
 Data File : VW010427.D
 Acq On : 17 May 2019 23:39
 Operator : SY/VA
 Sample : K2241-01 4PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:15:19 PM

Quant Time: May 18 02:00:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W051719S.M
 Quant Title : SW846 8260
 QLast Update : Sat May 18 01:56:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	616332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	1200468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	1080880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	489054	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	427739	63.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.56%	
35) Dibromofluoromethane	7.88	113	400629	54.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.06%	
50) Toluene-d8	10.32	98	1489138	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	
62) 4-Bromofluorobenzene	12.62	95	584385	53.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	31866	6.287	ug/l	100
3) Chloromethane	2.21	50	38973	5.515	ug/l	97
4) Vinyl Chloride	2.35	62	34760	4.707	ug/l	95
5) Bromomethane	2.76	94	27135	6.480	ug/l	91
6) Chloroethane	2.90	64	24358	5.292	ug/l	100
7) Trichlorofluoromethane	3.25	101	48847	4.770	ug/l	86
8) Diethyl Ether	3.68	74	18986	5.212	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.05	101	30827	4.730	ug/l	95
10) Methyl Iodide	4.26	142	31326	4.298	ug/l	99
11) Tert butyl alcohol	5.18	59	19203	31.319	ug/l #	91
12) 1,1-Dichloroethene	4.03	96	30271	4.925	ug/l	91
13) Acrolein	3.90	56	12041	25.700	ug/l	93
14) Allyl chloride	4.66	41	46328	4.859	ug/l	99
15) Acrylonitrile	5.37	53	41846	26.870	ug/l	96
16) Acetone	4.13	43	33695	28.299	ug/l #	88
17) Carbon Disulfide	4.37	76	86038	4.902	ug/l	98
18) Methyl Acetate	4.67	43	25048	6.732	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	94526	5.362	ug/l	99
20) Methylene Chloride	4.91	84	42224	5.923	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	35255	4.918	ug/l	95
22) Diisopropyl ether	6.31	45	101861	5.006	ug/l #	91
23) Vinyl Acetate	6.26	43	292559	23.047	ug/l	99
24) 1,1-Dichloroethane	6.21	63	56753	4.817	ug/l	99
25) 2-Butanone	7.18	43	53524	26.371	ug/l	93
26) 2,2-Dichloropropane	7.17	77	43568	4.098	ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	42034	5.228	ug/l	92
28) Bromochloromethane	7.51	49	17985	4.063	ug/l	99
29) Tetrahydrofuran	7.53	42	38321	27.900	ug/l	97
30) Chloroform	7.68	83	61080	4.930	ug/l	97
31) Cyclohexane	7.95	56	64709	5.478	ug/l #	77
32) 1,1,1-Trichloroethane	7.87	97	55815	4.777	ug/l	99
36) 1,1-Dichloropropene	8.08	75	46063	4.334	ug/l	95
37) Ethyl Acetate	7.26	43	25173	4.937	ug/l	97
38) Carbon Tetrachloride	8.07	117	48903	4.264	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	61824	4.356	ug/l	93
40) Benzene	8.32	78	134792	4.444	ug/l	100
41) Methacrylonitrile	7.49	41	15532	5.087	ug/l #	87
42) 1,2-Dichloroethane	8.40	62	43982	4.867	ug/l	97
43) Isopropyl Acetate	8.43	43	50570	4.870	ug/l	98
44) Trichloroethene	9.09	130	38567	4.438	ug/l	97
45) 1,2-Dichloropropane	9.37	63	34848	4.693	ug/l	93
46) Dibromomethane	9.45	93	21527	4.908	ug/l	96
47) Bromodichloromethane	9.65	83	49129	4.508	ug/l	100
48) Methyl methacrylate	9.43	41	21916	4.580	ug/l	92
49) 1,4-Dioxane	9.46	88	6671	102.772	ug/l	93
51) 4-Methyl-2-Pentanone	10.21	43	130544	24.577	ug/l	99
52) Toluene	10.38	92	90844	4.510	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	49836	4.434	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	56056	4.399	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	30618	4.838	ug/l	96
56) Ethyl methacrylate	10.65	69	40750	4.615	ug/l	98
57) 1,3-Dichloropropane	10.93	76	50976	4.805	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.93	63	92095	21.706	ug/l	98
59) 2-Hexanone	10.97	43	86934	23.504	ug/l	98
60) Dibromochloromethane	11.13	129	35160	4.477	ug/l	99
61) 1,2-Dibromoethane	11.24	107	30284	4.722	ug/l	95
64) Tetrachloroethene	10.86	164	36782	5.174	ug/l	98
65) Chlorobenzene	11.66	112	101287	4.615	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.73	131	34777	4.291	ug/l	97
67) Ethyl Benzene	11.73	91	173382	4.484	ug/l	95
68) m/p-Xylenes	11.84	106	135009	8.922	ug/l	97
69) o-Xylene	12.16	106	63896	4.430	ug/l	94
70) Styrene	12.18	104	109450	4.407	ug/l	99
71) Bromoform	12.35	173	20454	4.479	ug/l #	97
73) Isopropylbenzene	12.46	105	170934	4.520	ug/l	100
74) N-amyl acetate	12.27	43	42880	4.425	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.71	83	35730	4.771	ug/l	96
76) 1,2,3-Trichloropropane	12.77	75	26312m	5.024	ug/l	
77) Bromobenzene	12.75	156	38652	4.525	ug/l	91
78) n-propylbenzene	12.80	91	203063	4.629	ug/l	99
79) 2-Chlorotoluene	12.90	91	120886	4.719	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	149767	4.653	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	10982	4.138	ug/l	88
82) 4-Chlorotoluene	12.99	91	128764	4.813	ug/l	97
83) tert-Butylbenzene	13.21	119	129573	4.760	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	149653	4.726	ug/l	96
85) sec-Butylbenzene	13.38	105	178707	4.662	ug/l	98
86) p-Isopropyltoluene	13.50	119	154744	4.469	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	78753	4.787	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	76578	4.676	ug/l	92
89) n-Butylbenzene	13.83	91	147629	4.468	ug/l	99
90) Hexachloroethane	14.09	117	30979	4.447	ug/l	94
91) 1,2-Dichlorobenzene	13.87	146	69879	4.671	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	7447	5.343	ug/l	82

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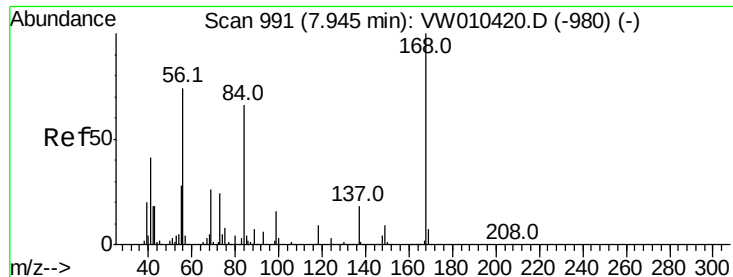
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	43049	4.415	ug/l	98
94) Hexachlorobutadiene	15.24	225	22950	4.408	ug/l	98
95) Naphthalene	15.37	128	101911	4.623	ug/l	97
96) 1,2,3-Trichlorobenzene	15.56	180	38540	4.483	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010427.D

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ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:168 Resp: 616332

Ion Ratio Lower Upper

168 100

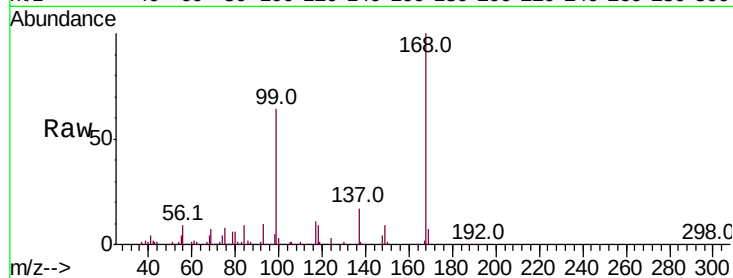
99 64.5 50.8 76.2

Manual Integrations

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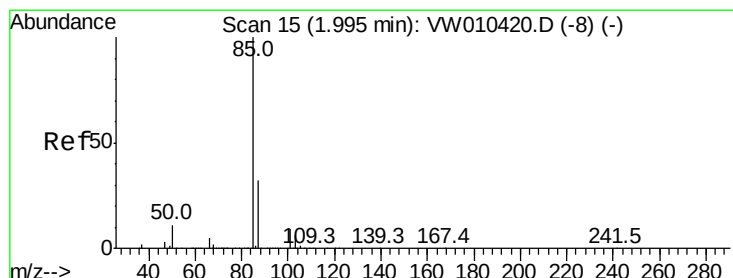
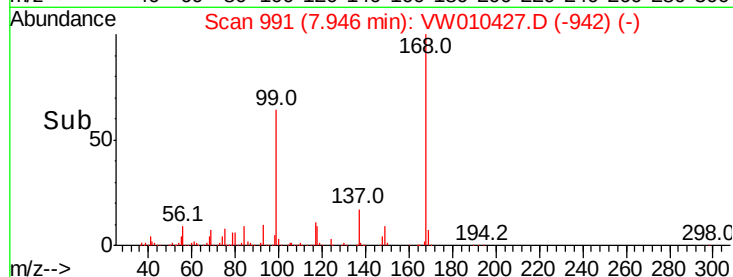
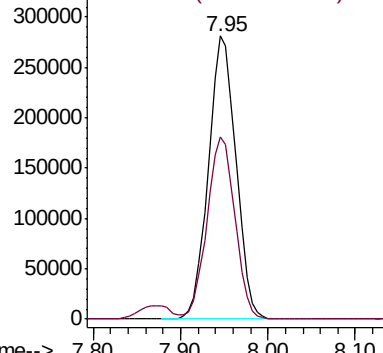
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 6.287 ug/l

RT: 2.00 min Scan# 15

Delta R.T. 0.00 min

Lab File: VW010427.D

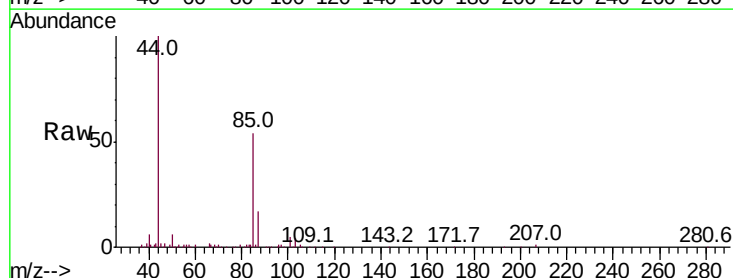
Acq: 17 May 2019 23:39

Tgt Ion: 85 Resp: 31866

Ion Ratio Lower Upper

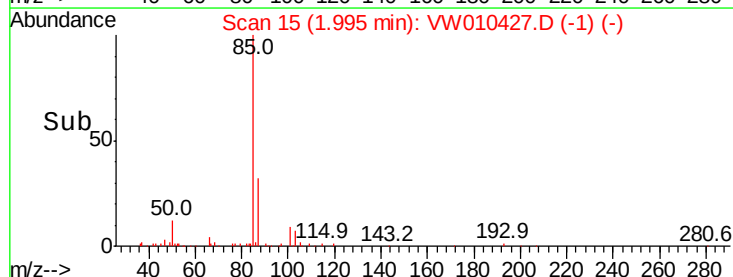
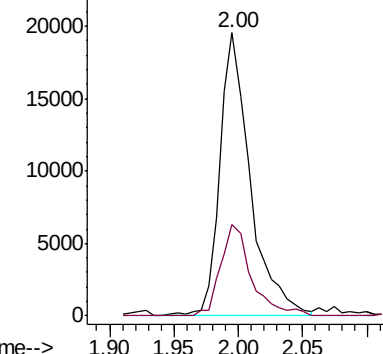
85 100

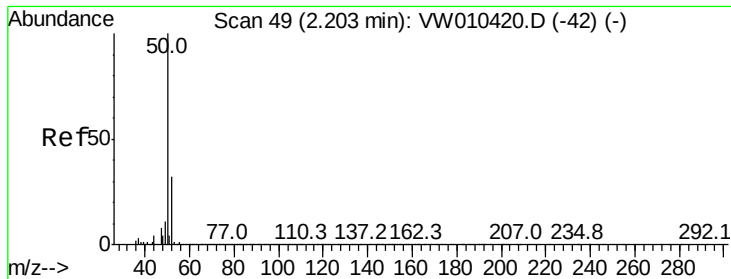
87 32.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 5.515 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 50 Resp: 38973

Ion Ratio Lower Upper

50 100

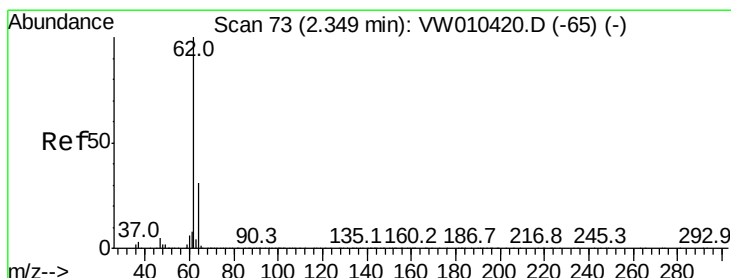
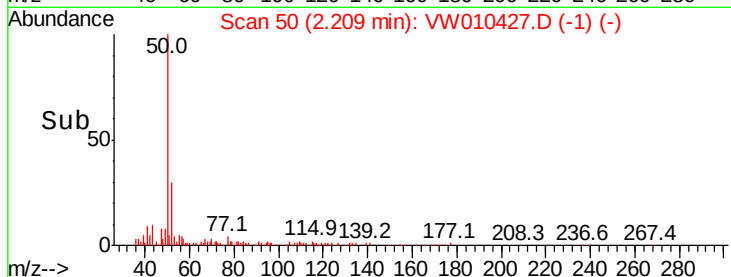
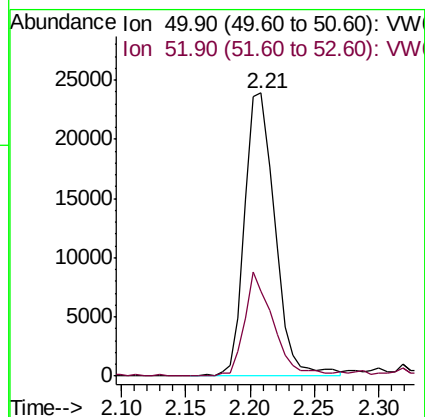
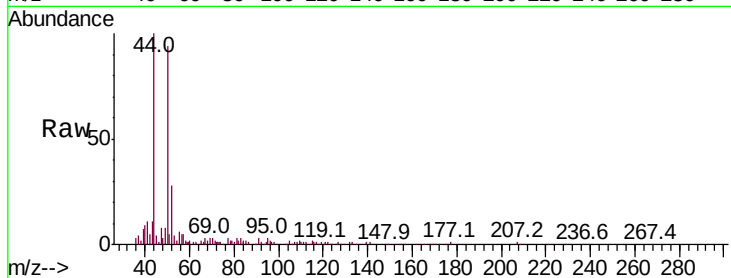
52 29.8 25.4 38.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.707 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VW010427.D

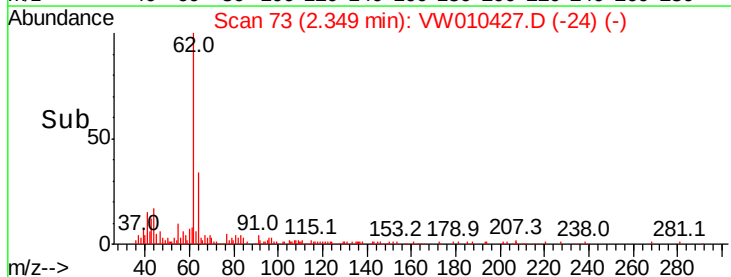
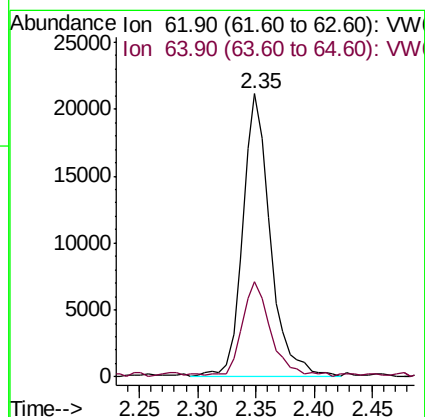
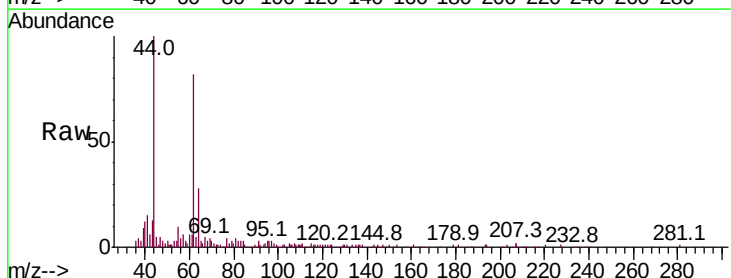
Acq: 17 May 2019 23:39

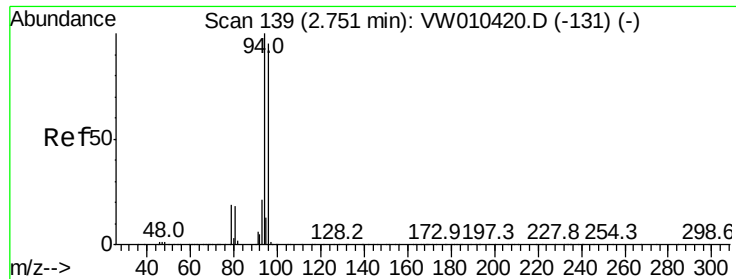
Tgt Ion: 62 Resp: 34760

Ion Ratio Lower Upper

62 100

64 33.0 24.4 36.6





#5

Bromomethane

Concen: 6.480 ug/l

RT: 2.76 min Scan# 140

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

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Tot Ion: 94 Resp: 27135

Ion Ratio Lower Upper

94 100

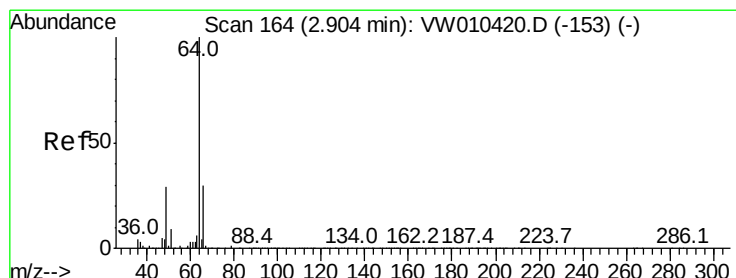
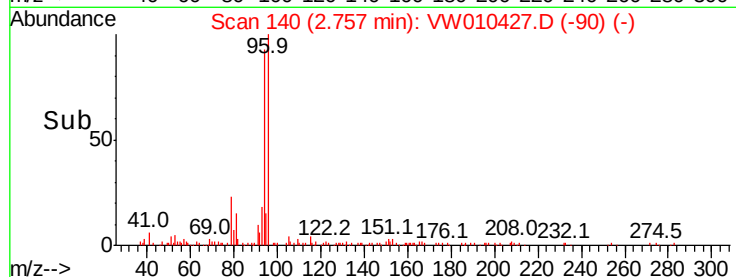
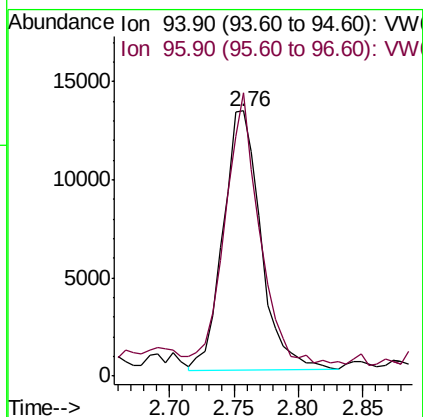
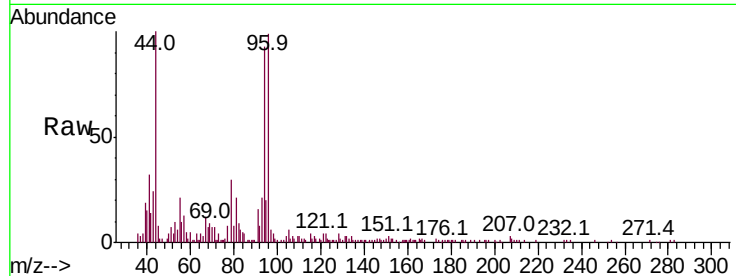
96 103.6 75.8 113.6

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#6

Chloroethane

Concen: 5.292 ug/l

RT: 2.90 min Scan# 164

Delta R.T. 0.00 min

Lab File: VW010427.D

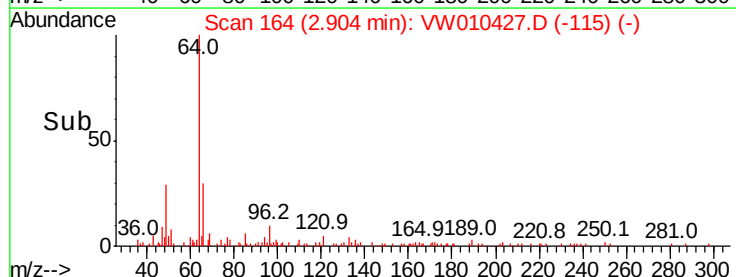
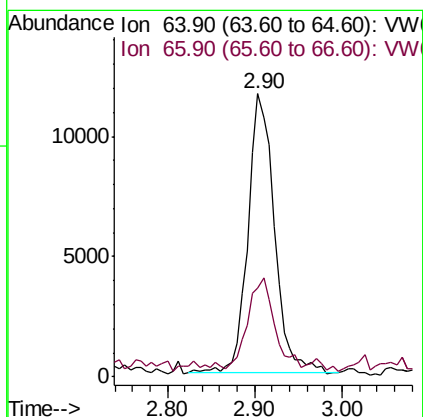
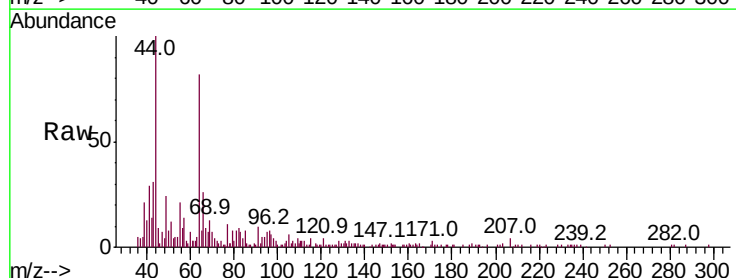
Acq: 17 May 2019 23:39

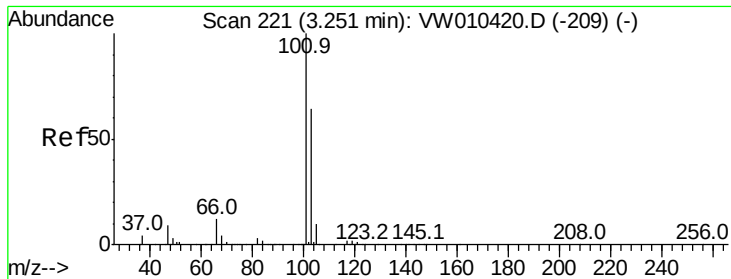
Tgt Ion: 64 Resp: 24358

Ion Ratio Lower Upper

64 100

66 29.6 23.6 35.4





#7

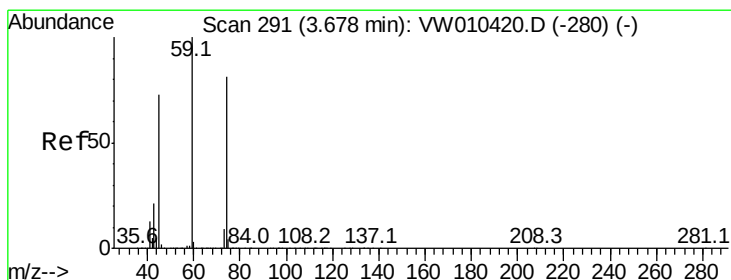
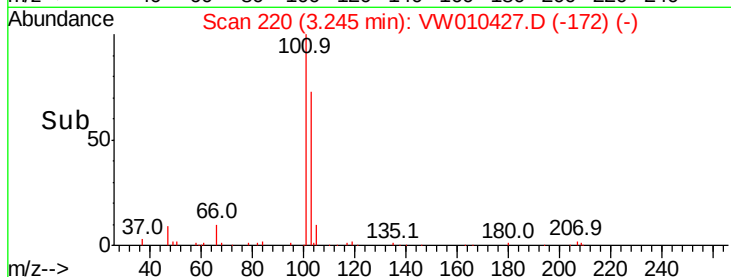
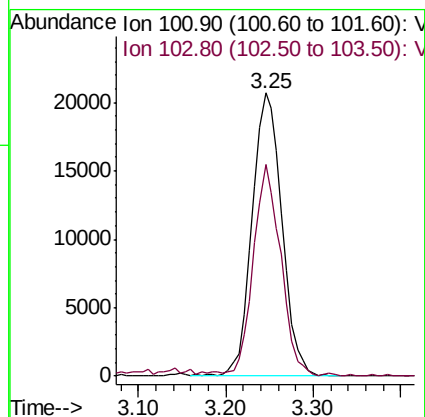
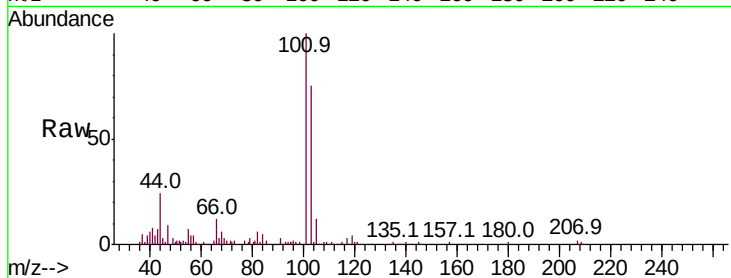
Trichlorofluoromethane
Concen: 4.770 ug/l
RT: 3.25 min Scan# 220
Delta R.T. -0.01 min
Lab File: VW010427.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	74.9	51.4	77.0

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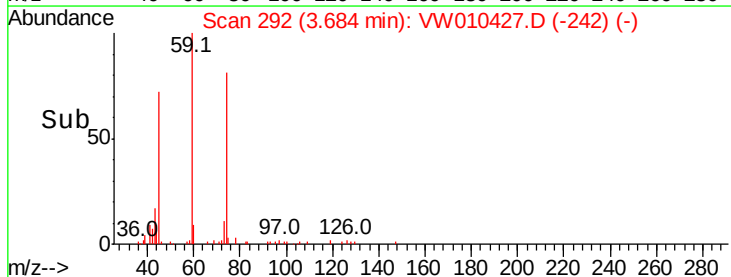
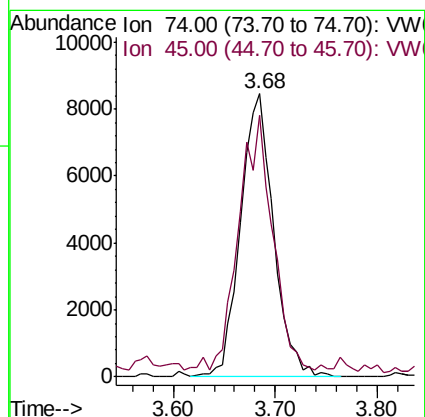
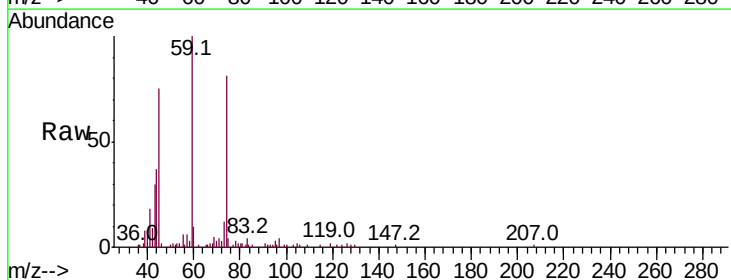
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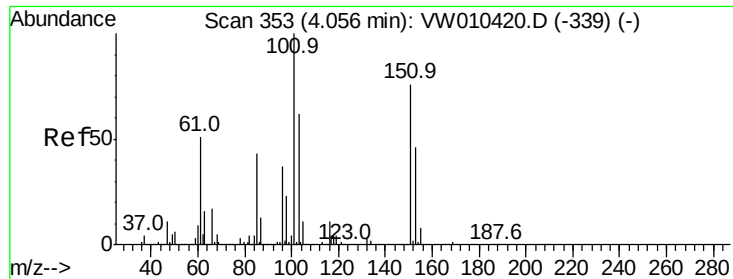


#8

Diethyl Ether
Concen: 5.212 ug/l
RT: 3.68 min Scan# 292
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.5	43.4	130.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.730 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010427.D

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Instrument :

MSVOA_W

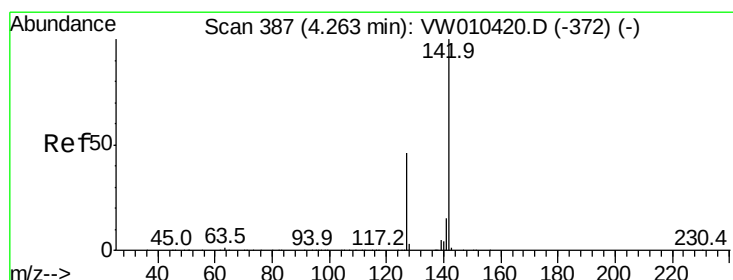
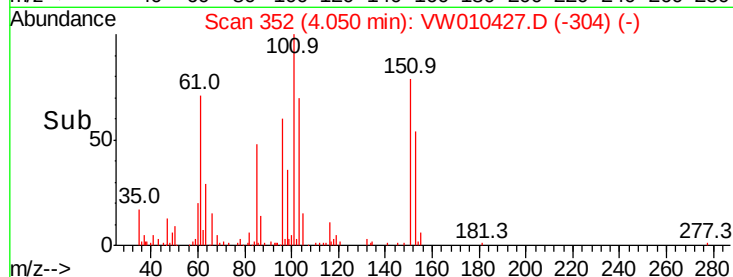
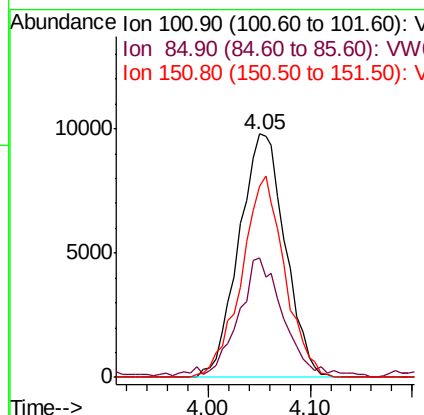
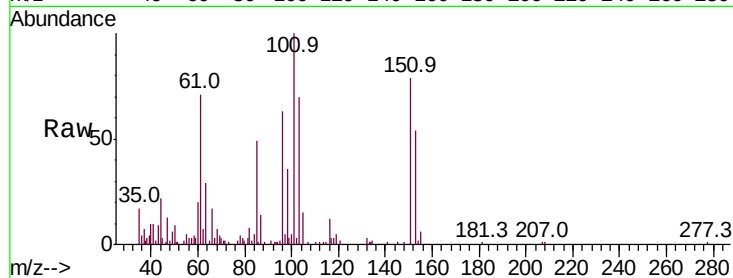
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	101	Resp:	30827
Ion Ratio	Lower	Upper	
101	100		
85	48.0	34.3	51.5
151	77.3	59.4	89.2

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#10

Methyl Iodide

Concen: 4.298 ug/l

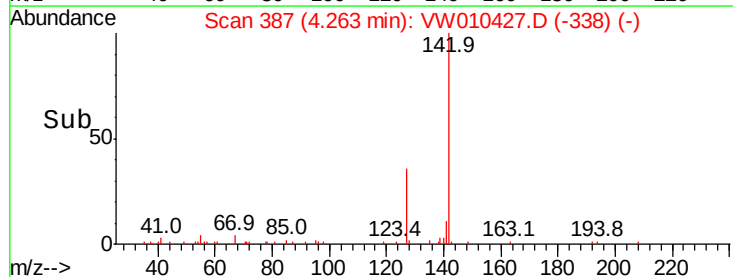
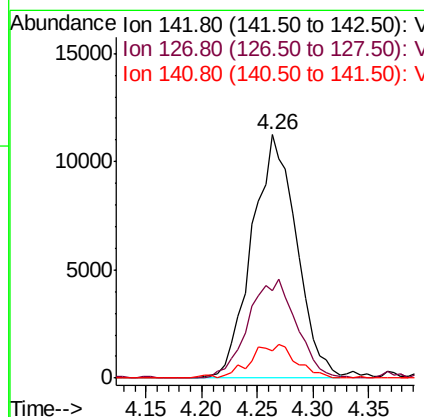
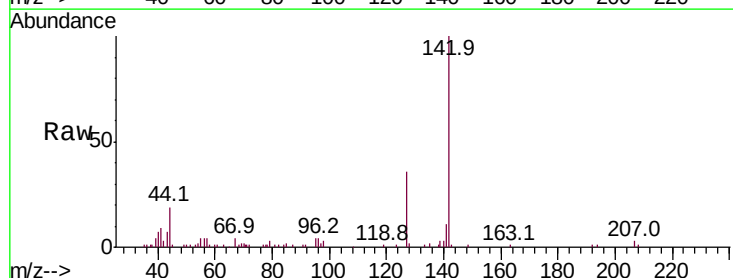
RT: 4.26 min Scan# 387

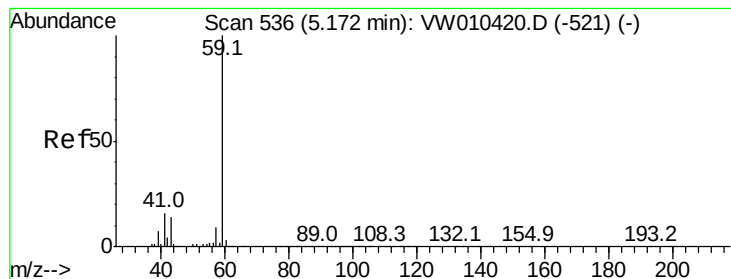
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	142	Resp:	31326
Ion Ratio	Lower	Upper	
142	100		
127	43.8	35.4	53.2
141	14.1	11.4	17.2





#11

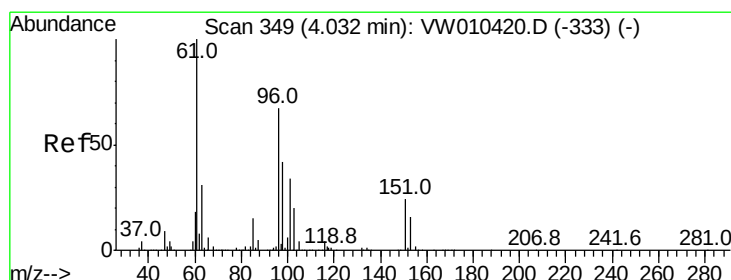
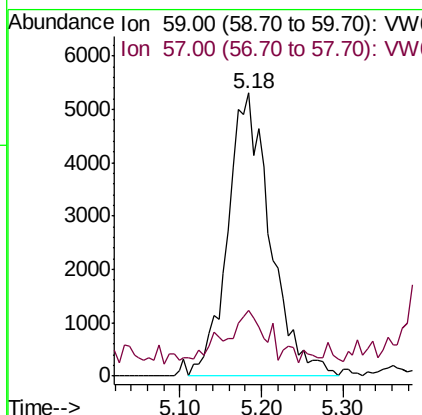
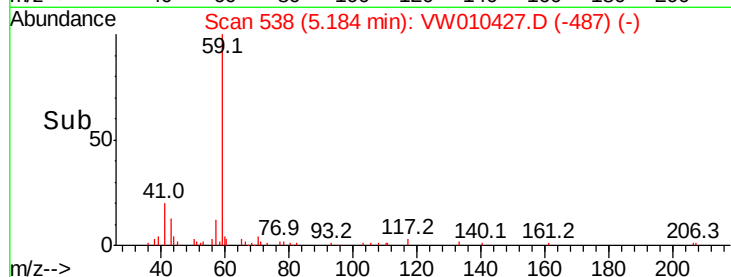
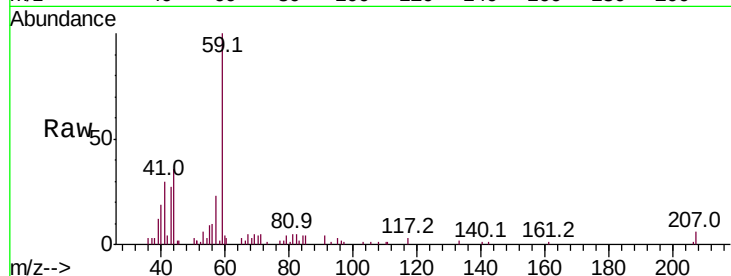
Tert butyl alcohol
Concen: 31.319 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 59 Resp: 19203
Ion Ratio Lower Upper
59 100
57 7.2 8.4 12.6#

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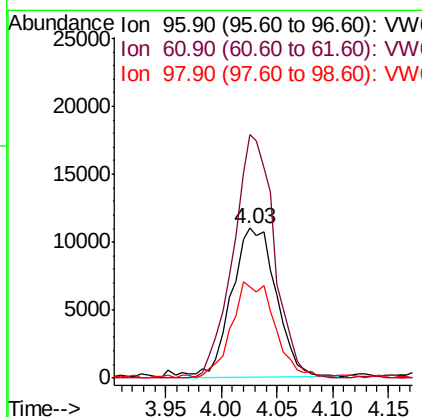
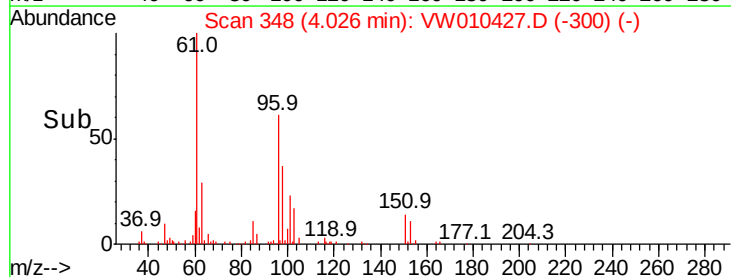
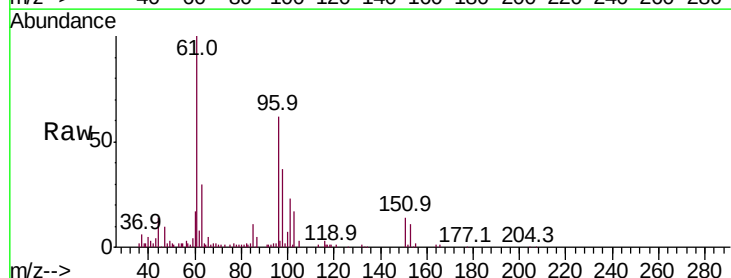
MMDadoda
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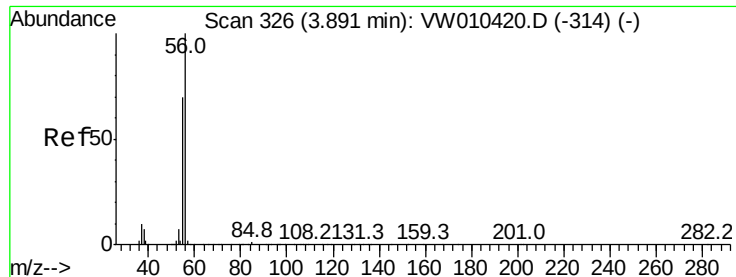


#12

1,1-Dichloroethene
Concen: 4.925 ug/l
RT: 4.03 min Scan# 348
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 96 Resp: 30271
Ion Ratio Lower Upper
96 100
61 163.7 120.3 180.5
98 59.4 50.7 76.1





#13

Acrolein

Concen: 25.700 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 56 Resp: 12041

Ion Ratio Lower Upper

56 100

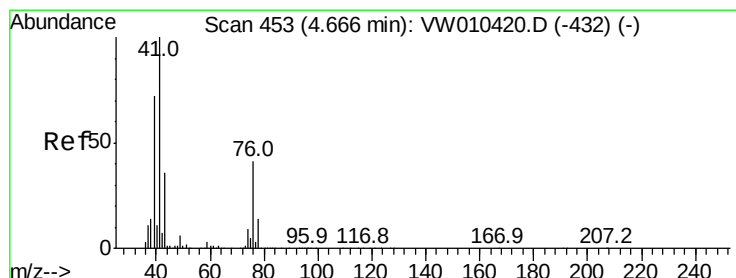
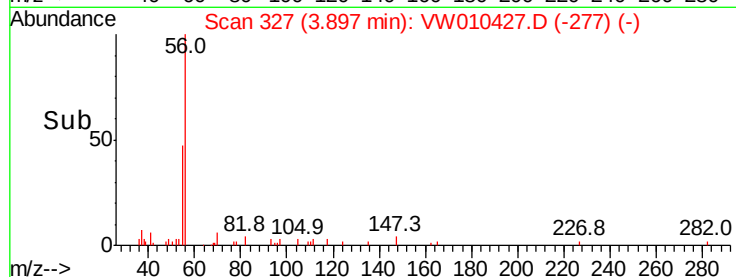
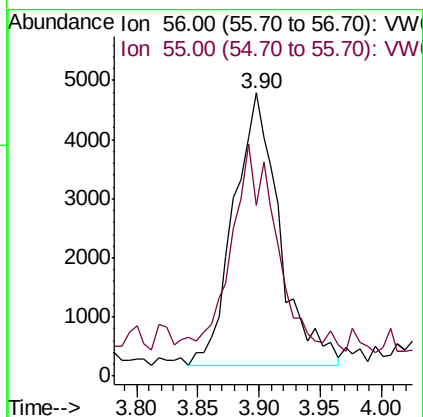
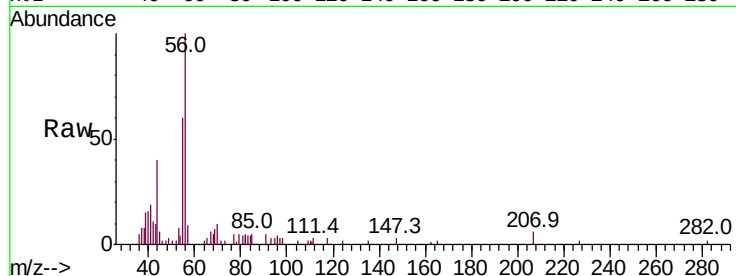
55 78.0 57.6 86.4

Manual Integrations

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#14

Allyl chloride

Concen: 4.859 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

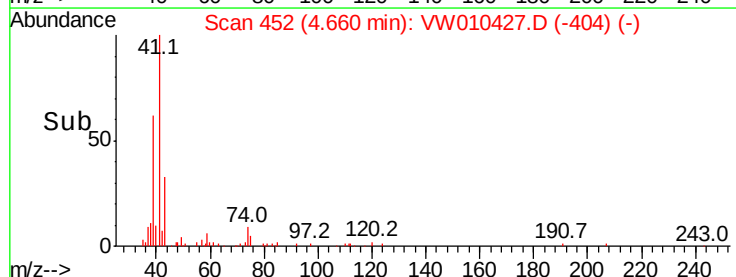
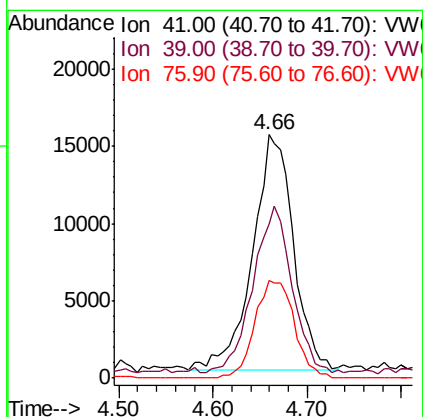
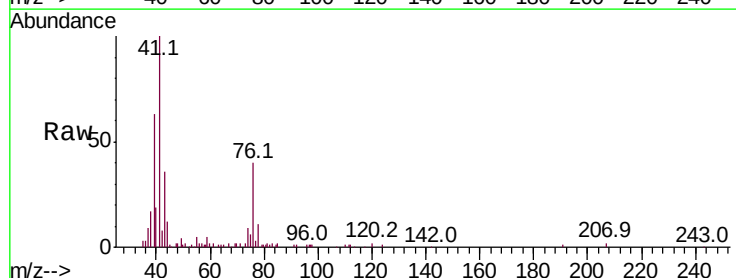
Tgt Ion: 41 Resp: 46328

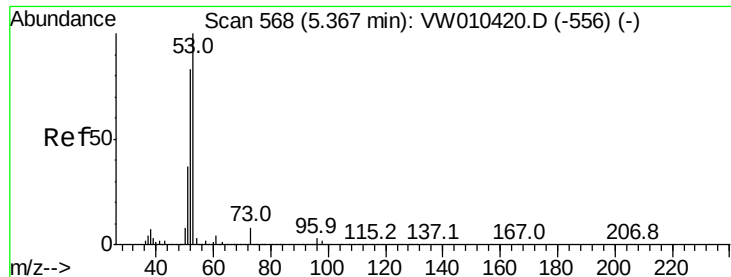
Ion Ratio Lower Upper

41 100

39 67.8 54.9 82.3

76 40.1 31.8 47.6





#15

Acrylonitrile

Concen: 26.870 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

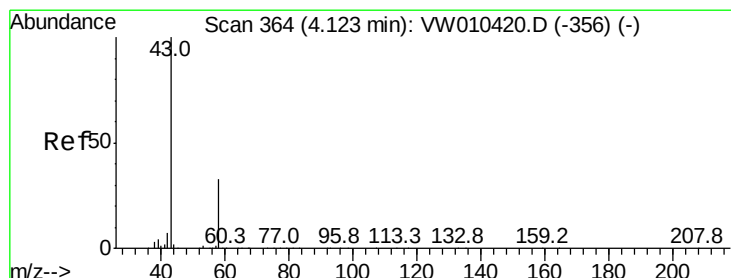
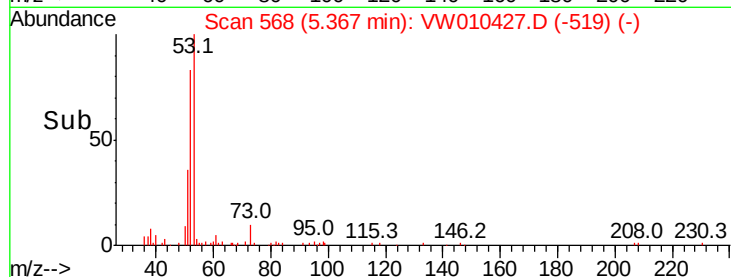
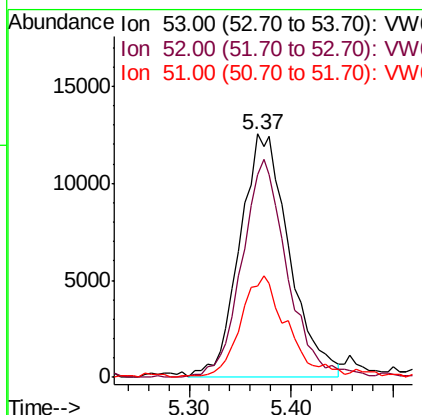
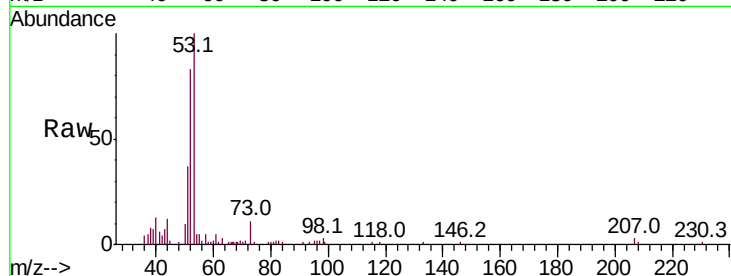
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	53	Resp:	41846
Ion	Ratio	Lower	Upper
53	100		
52	83.0	63.9	95.9
51	39.8	29.5	44.3

Manual Integrations
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#16

Acetone

Concen: 28.299 ug/l

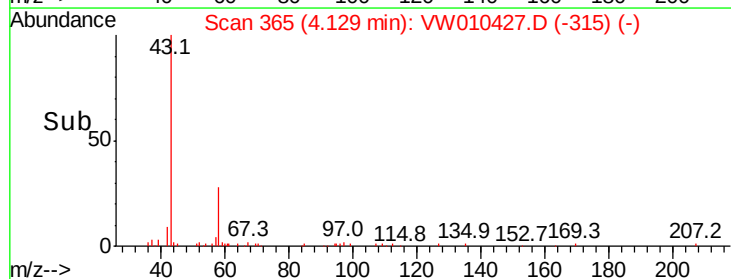
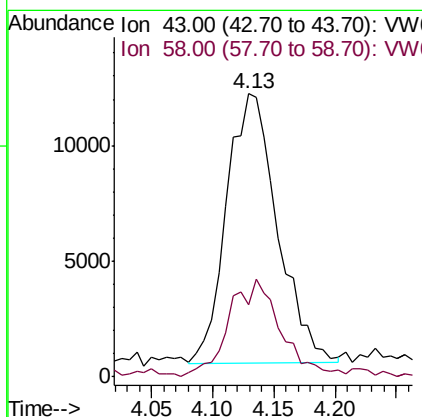
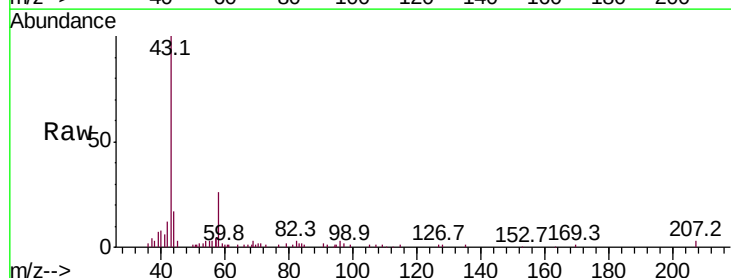
RT: 4.13 min Scan# 365

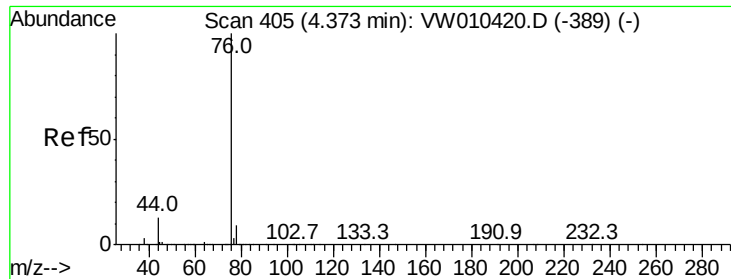
Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	43	Resp:	33695
Ion	Ratio	Lower	Upper
43	100		
58	25.6	26.0	39.0#





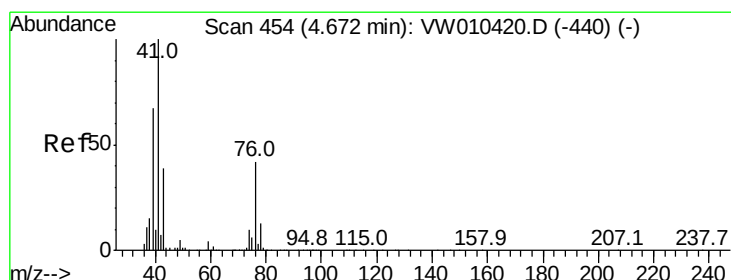
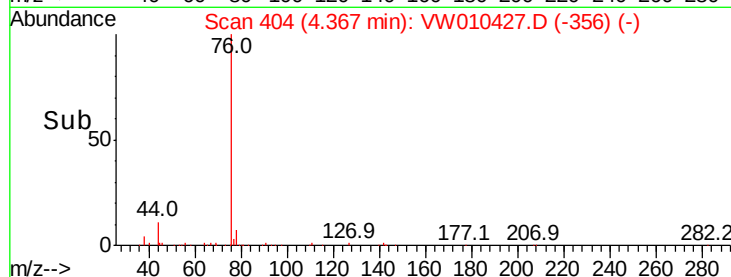
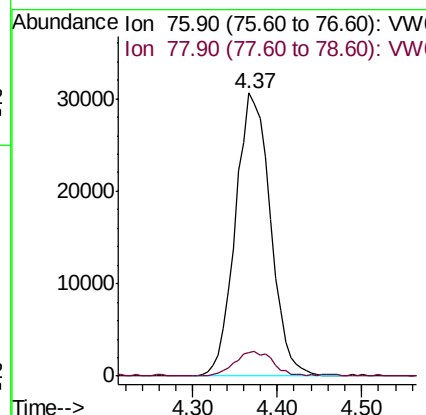
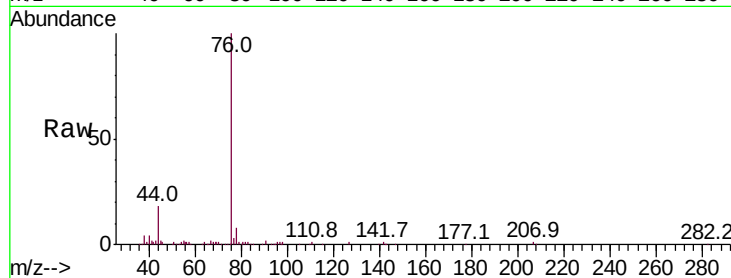
#17
Carbon Disulfide
Concen: 4.902 ug/l
RT: 4.37 min Scan# 404
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.1	10.7

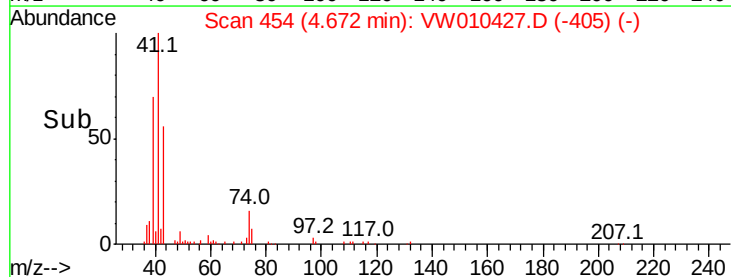
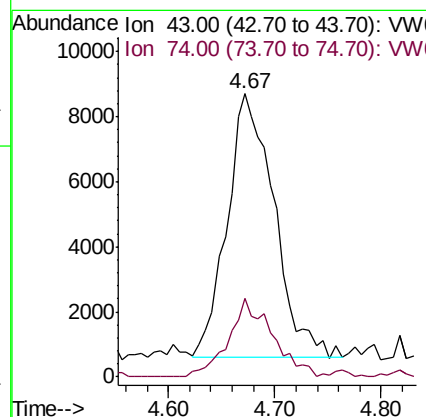
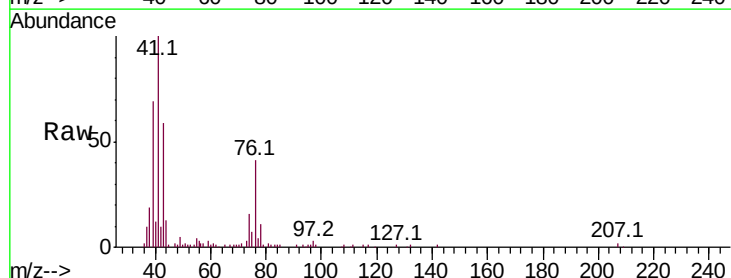
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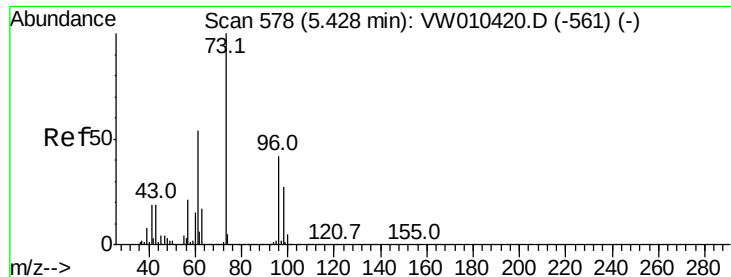
MMDadoda
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#18
Methyl Acetate
Concen: 6.732 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.6	21.2	31.8





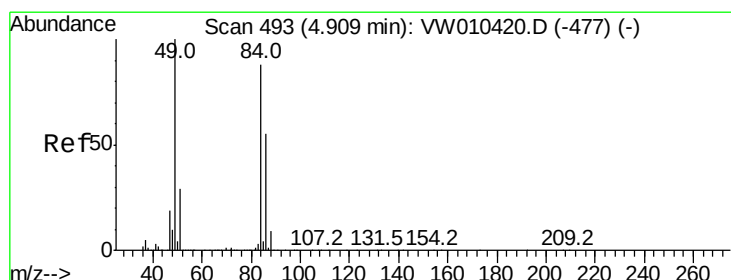
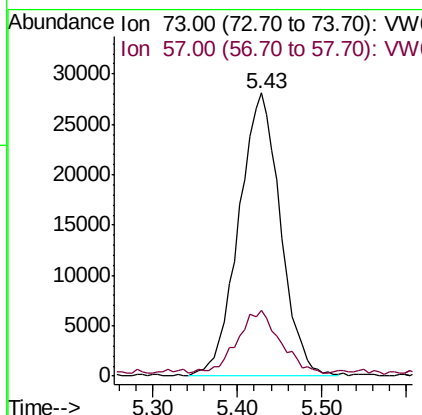
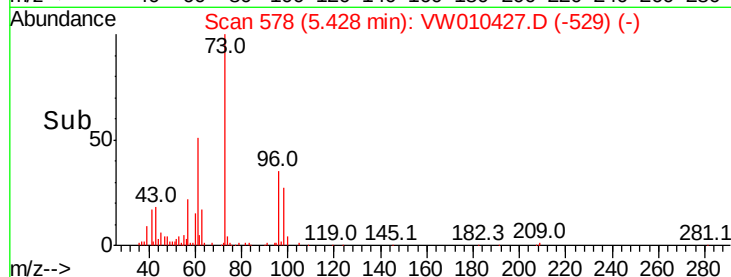
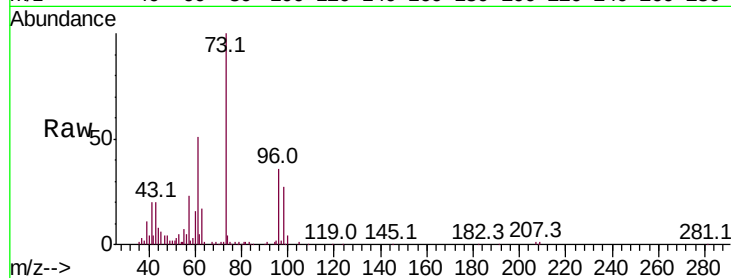
#19
Methyl tert-butyl Ether
Concen: 5.362 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 73 Resp: 94526
Ion Ratio Lower Upper
73 100
57 21.8 17.0 25.4

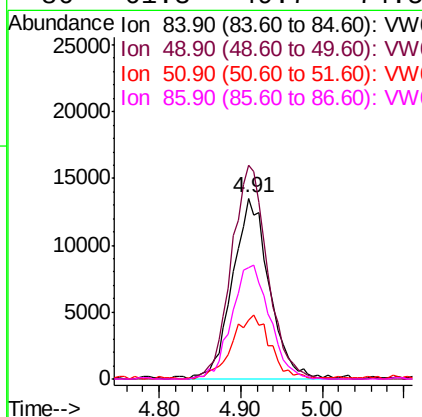
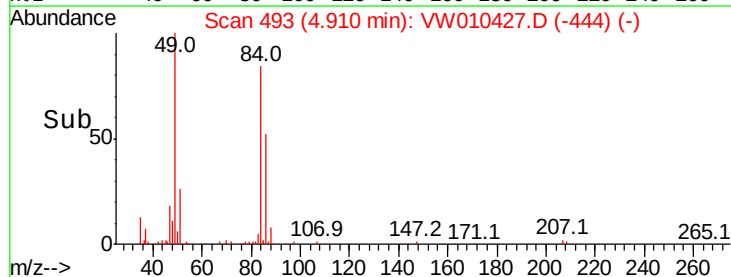
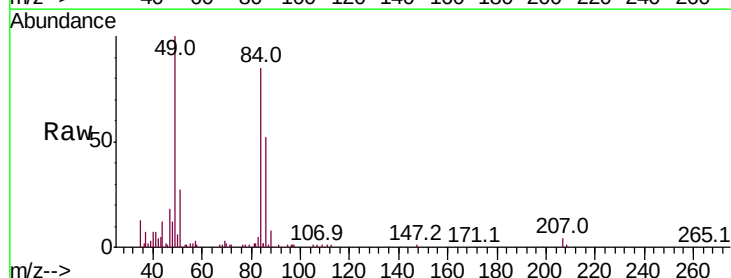
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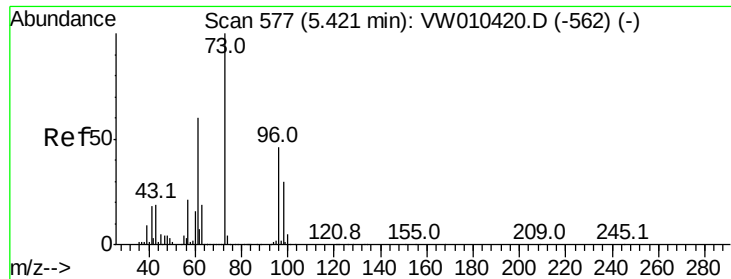
MMDadoda
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#20
Methylene Chloride
Concen: 5.923 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 84 Resp: 42224
Ion Ratio Lower Upper
84 100
49 118.2 90.6 135.8
51 32.0 26.6 40.0
86 61.3 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 4.918 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

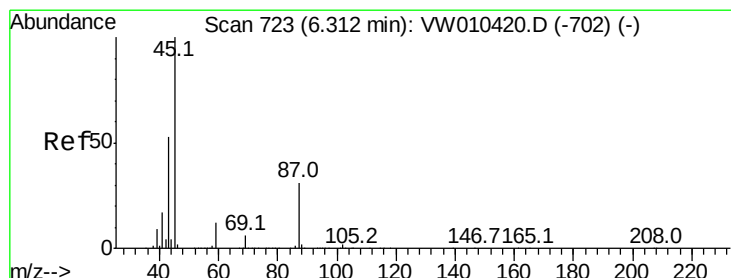
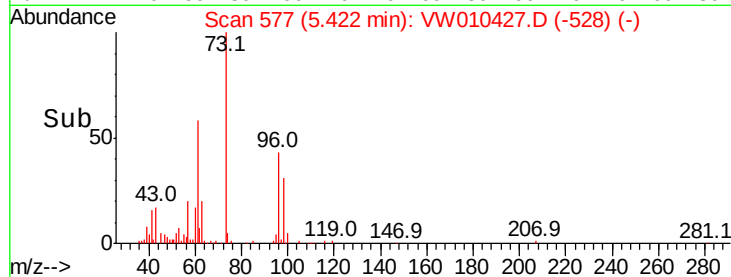
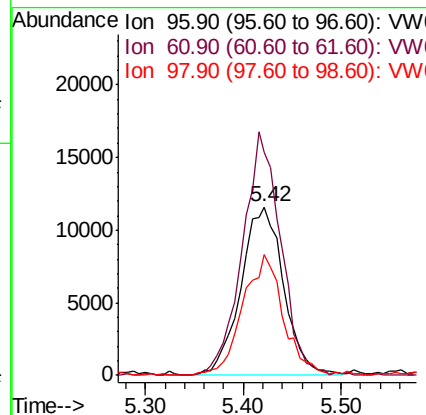
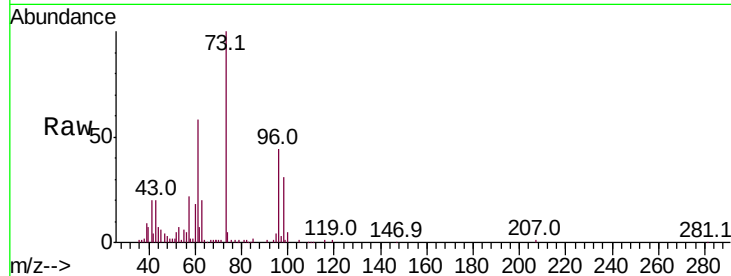
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	96	Resp:	35255
Ion	Ratio	Lower	Upper
96	100		
61	132.9	103.9	155.9
98	71.9	51.5	77.3

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#22

Diisopropyl ether

Concen: 5.006 ug/l

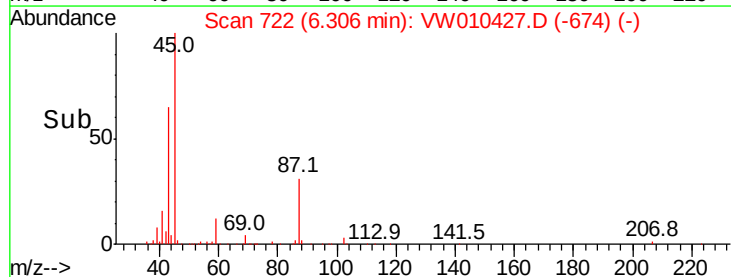
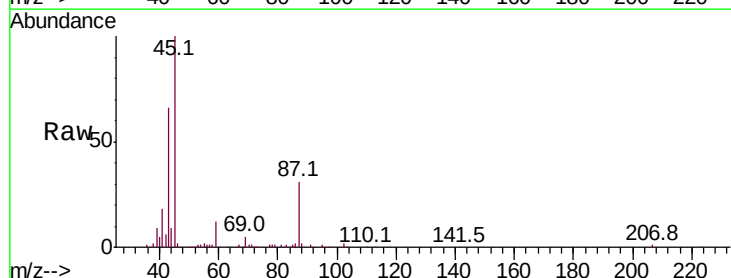
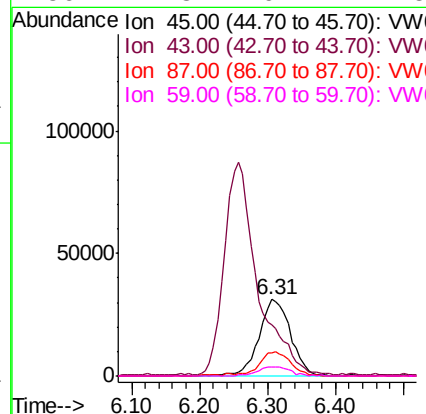
RT: 6.31 min Scan# 722

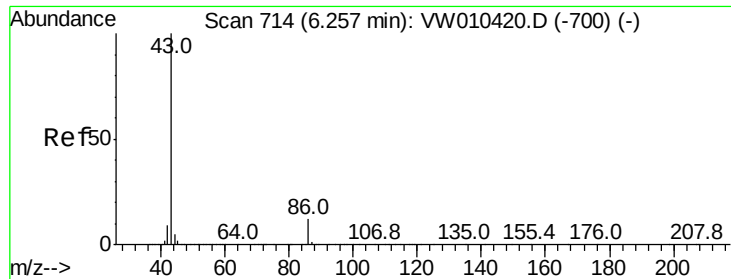
Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	45	Resp:	101861
Ion	Ratio	Lower	Upper
45	100		
43	64.0	42.0	63.0#
87	30.5	25.0	37.6
59	11.8	9.7	14.5





#23

Vinyl Acetate

Concen: 23.047 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleID :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 292559

Ion Ratio Lower Upper

43 100

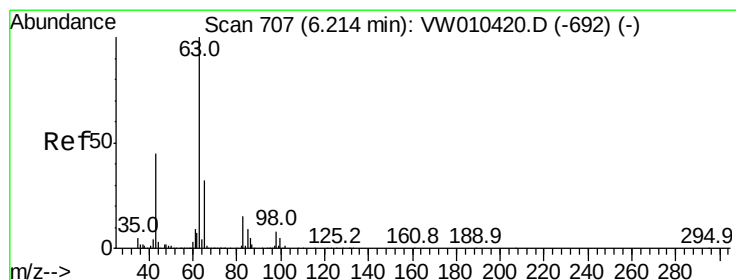
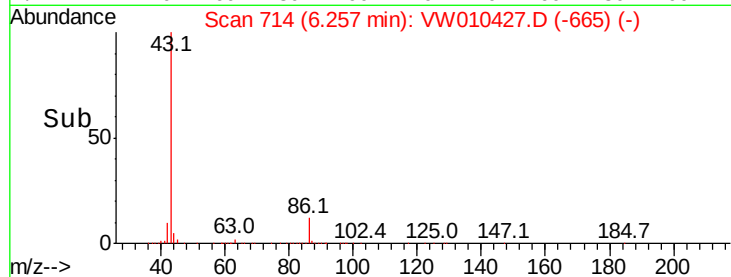
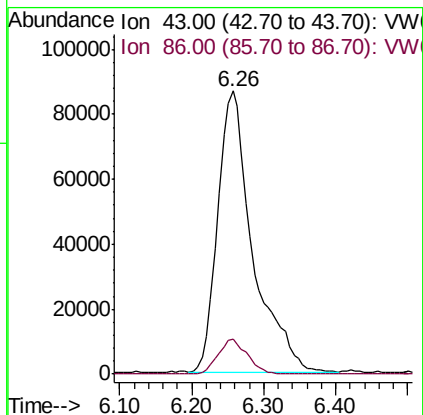
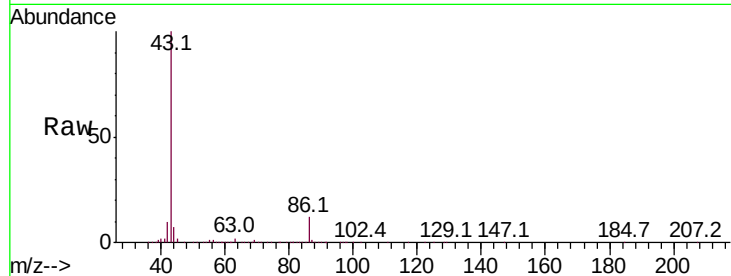
86 12.4 9.7 14.5

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#24

1,1-Dichloroethane

Concen: 4.817 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

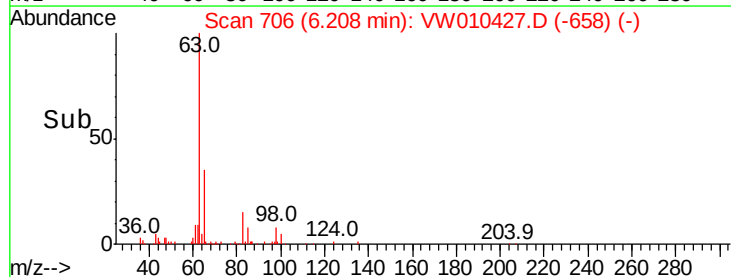
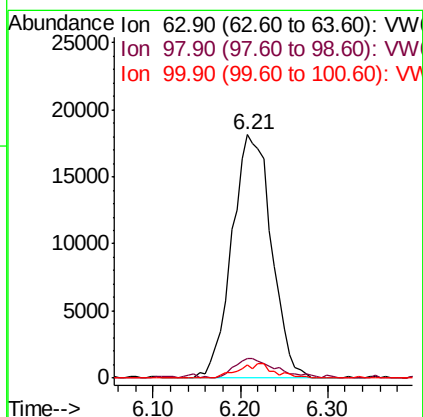
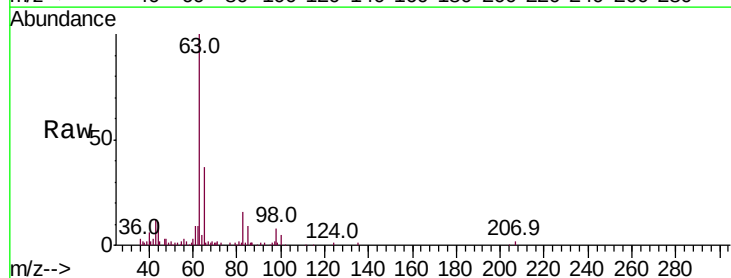
Tgt Ion: 63 Resp: 56753

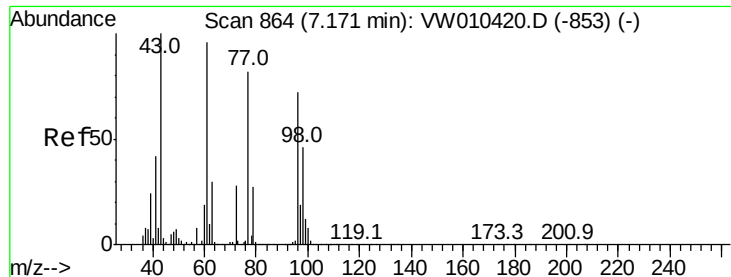
Ion Ratio Lower Upper

63 100

98 7.9 4.0 12.0

100 5.2 2.4 7.2





#25

2-Butanone

Concen: 26.371 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 53524

Ion Ratio Lower Upper

43 100

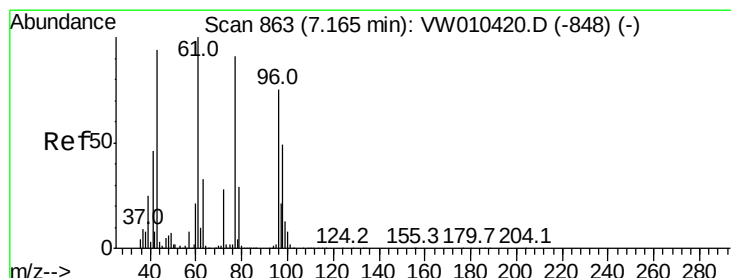
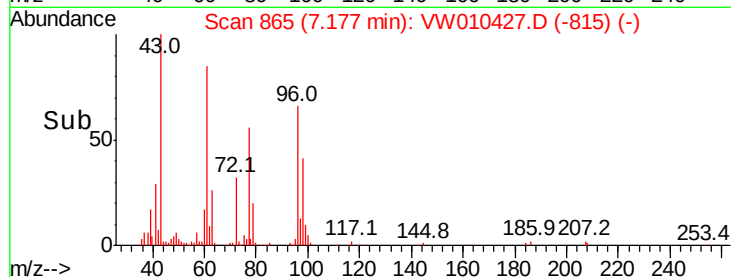
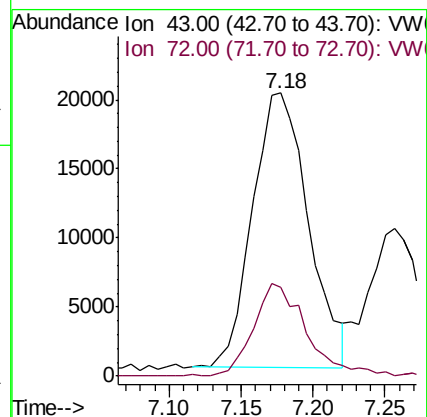
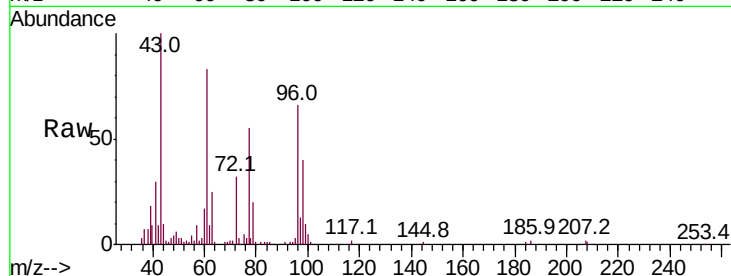
72 32.1 22.6 33.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.098 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW010427.D

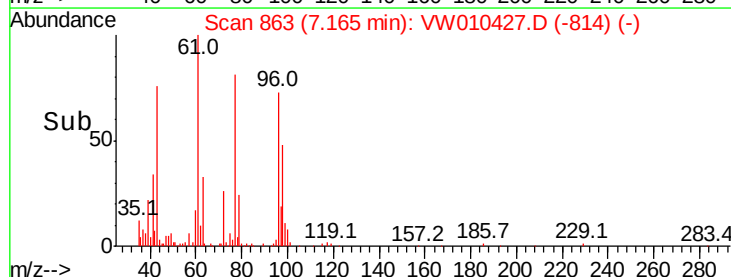
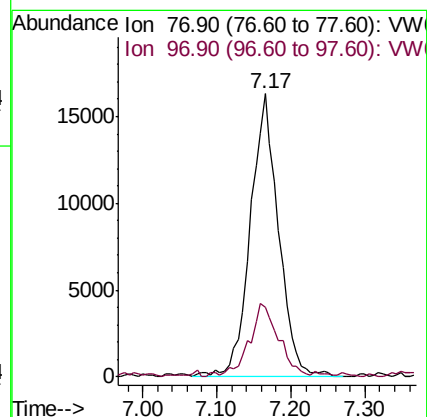
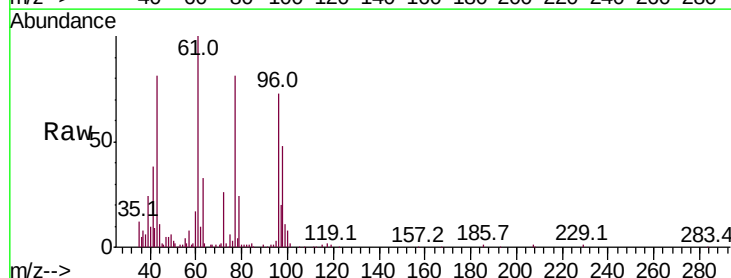
Acq: 17 May 2019 23:39

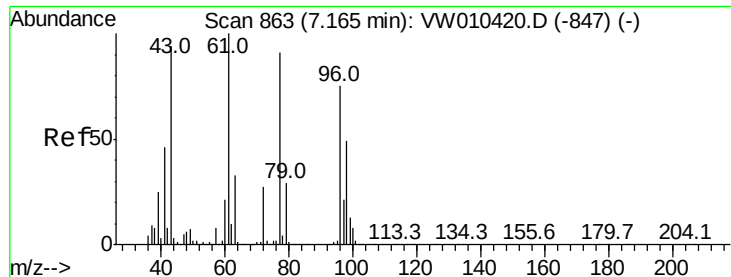
Tgt Ion: 77 Resp: 43568

Ion Ratio Lower Upper

77 100

97 26.8 11.7 35.1





#27

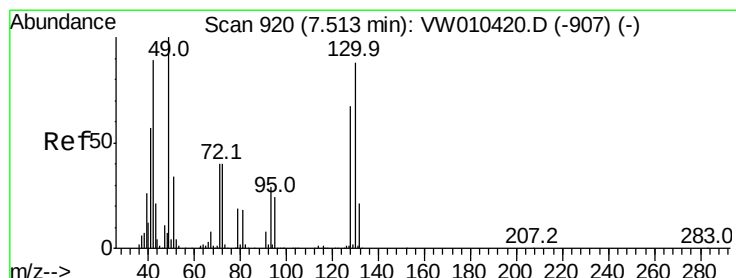
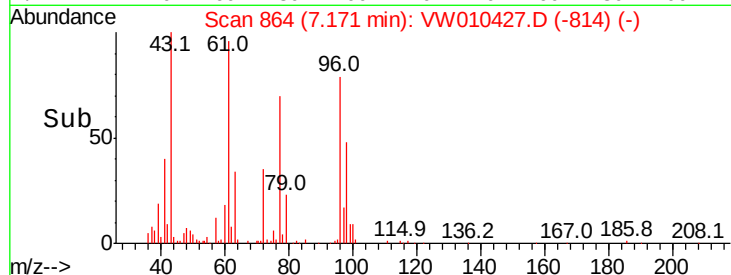
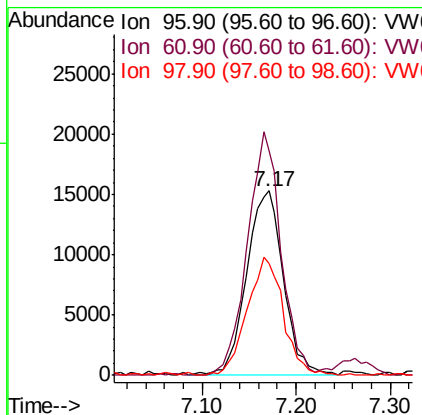
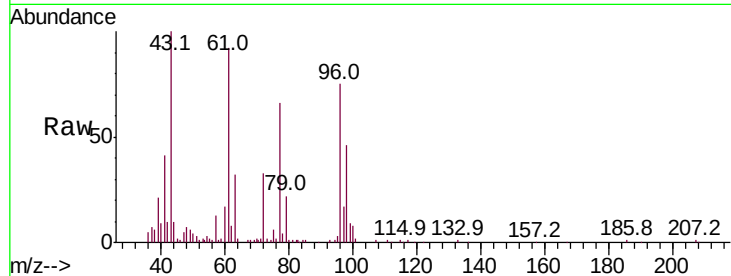
cis-1,2-Dichloroethene
 Concen: 5.228 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.2	0.0	266.4
98	62.8	0.0	129.6

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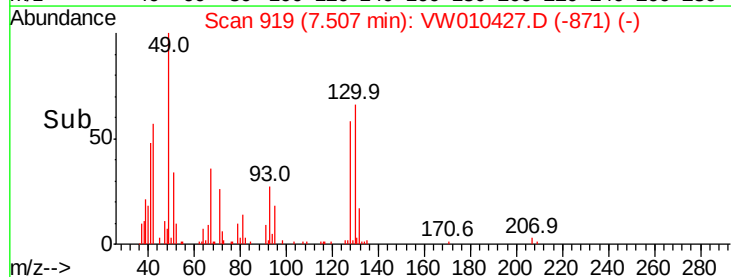
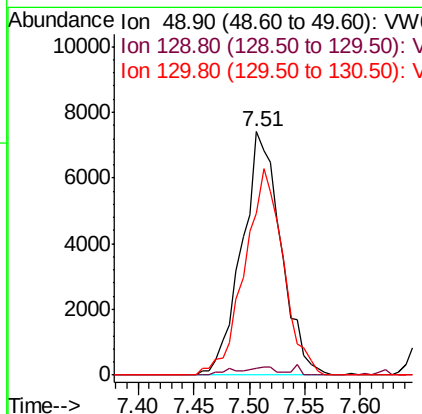
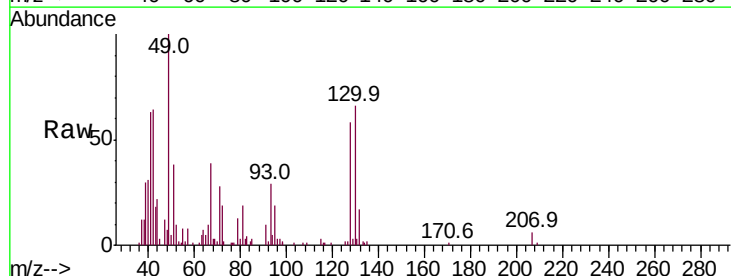
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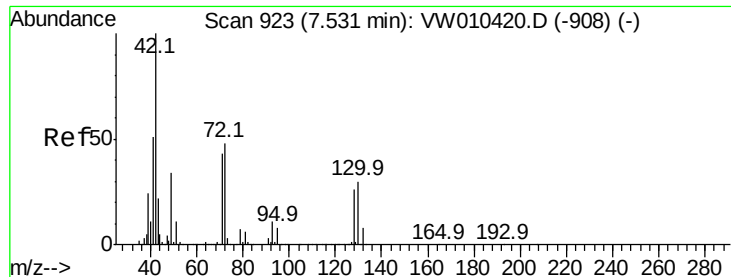


#28

Bromochloromethane
 Concen: 4.063 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.6
130	84.2	68.2	102.4





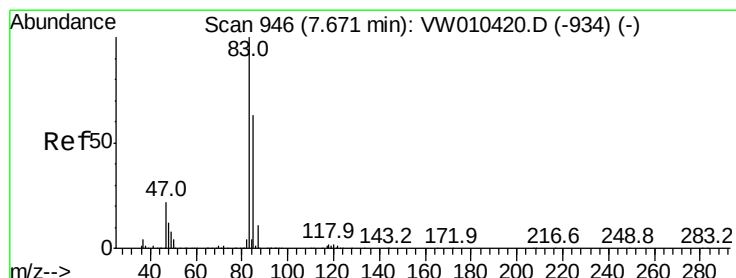
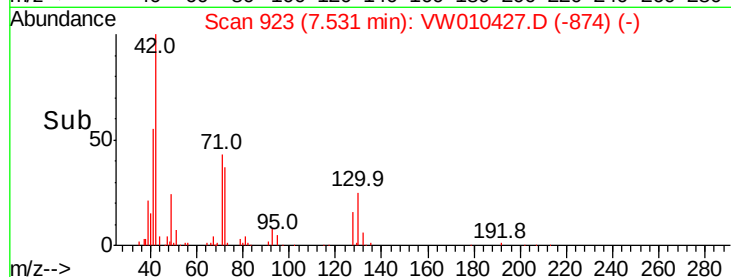
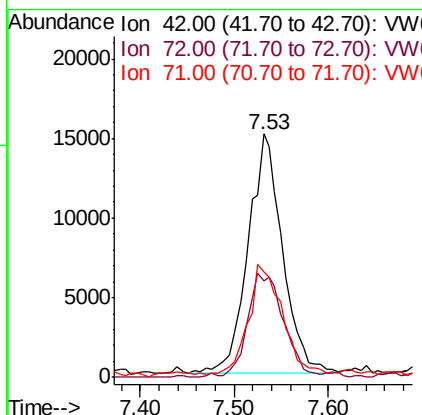
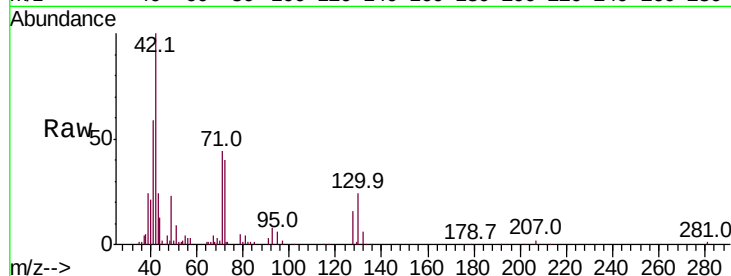
#29
Tetrahydrofuran
Concen: 27.900 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	38.2	57.2
71	45.2	36.0	54.0

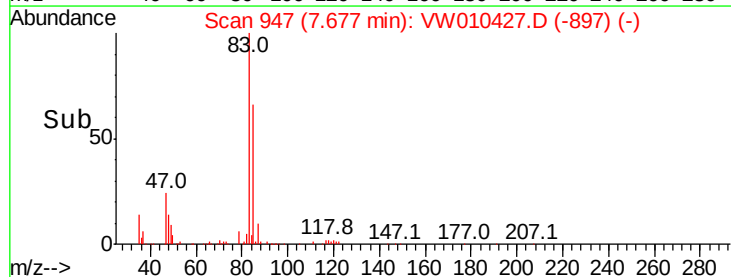
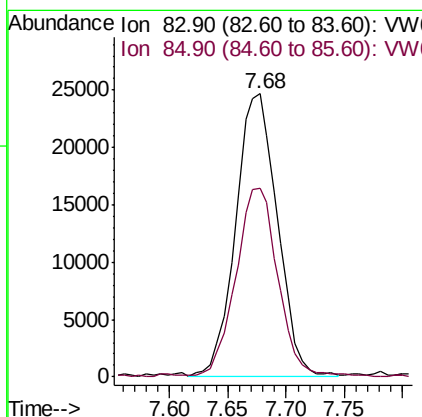
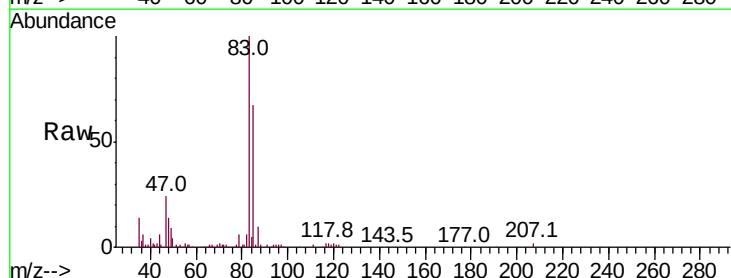
Manual Integrations
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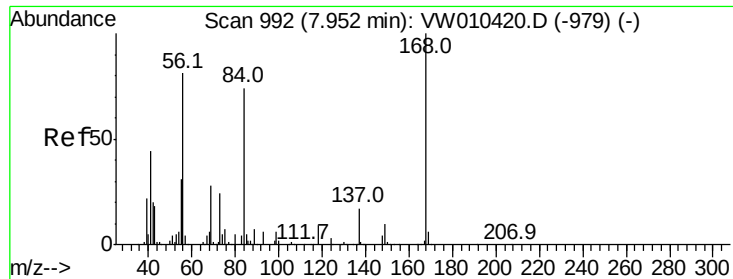
MMDadoda
5/20/2019 12:15:19 PM



#30
Chloroform
Concen: 4.930 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.8	76.2





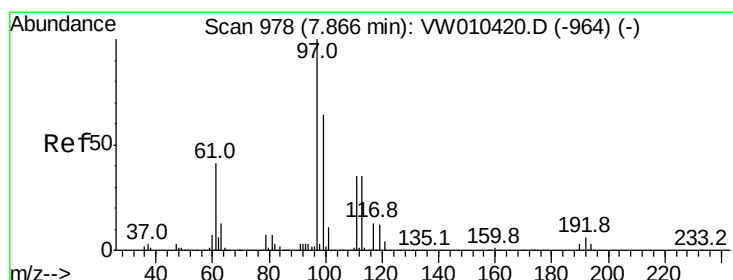
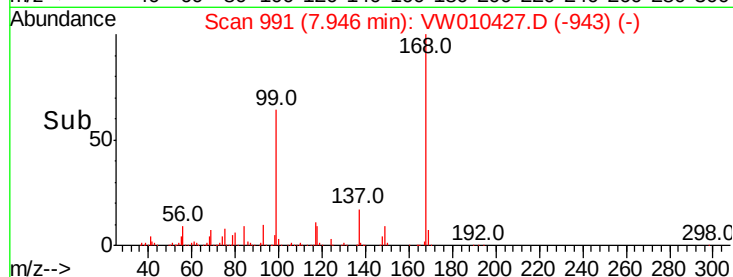
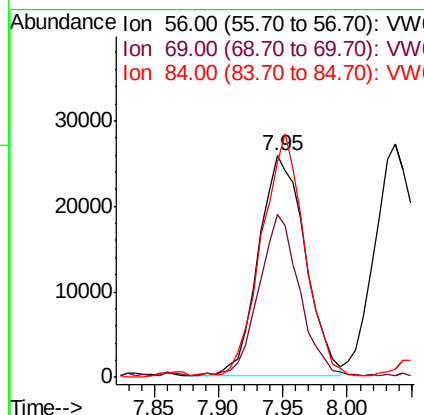
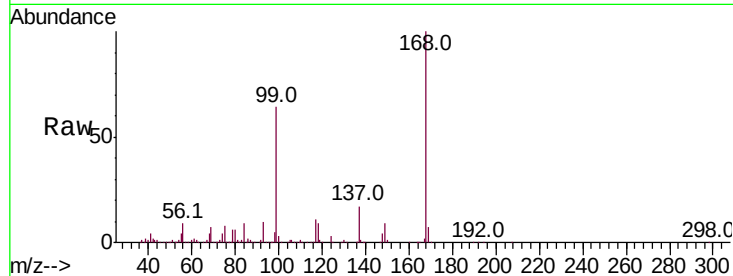
#31
Cyclohexane
Concen: 5.478 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 56 Resp: 64709
Ion Ratio Lower Upper
56 100
69 72.8 27.6 41.4#
84 96.9 72.9 109.3

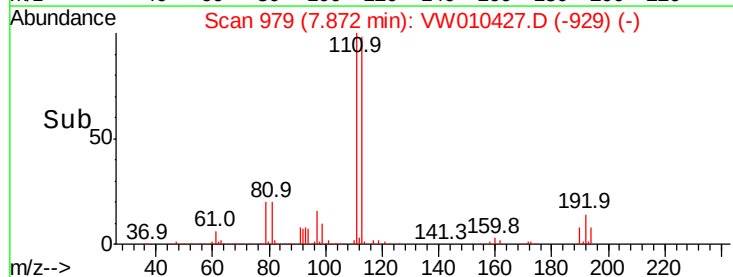
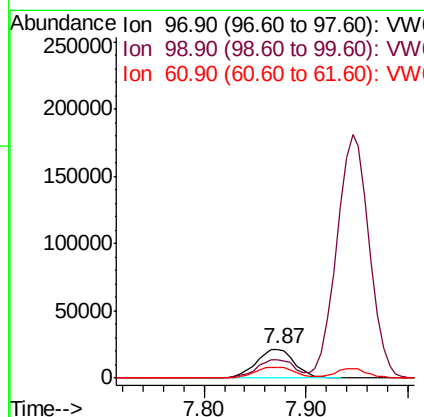
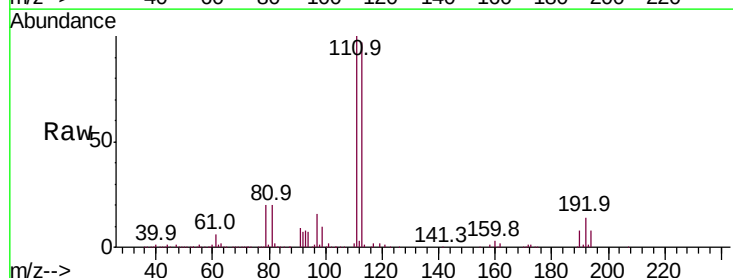
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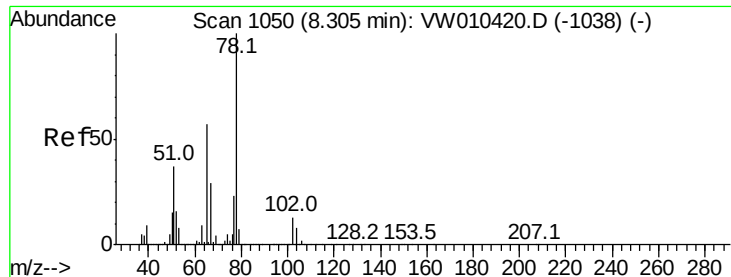
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 4.777 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 97 Resp: 55815
Ion Ratio Lower Upper
97 100
99 65.1 51.4 77.2
61 39.1 32.0 48.0





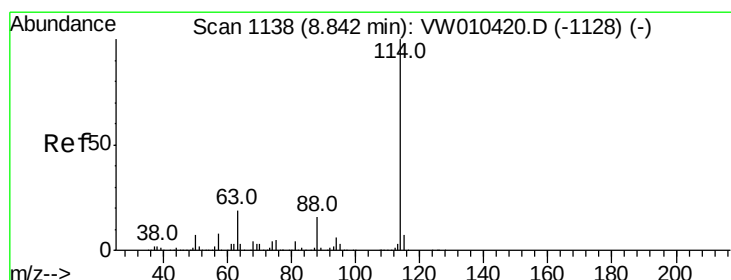
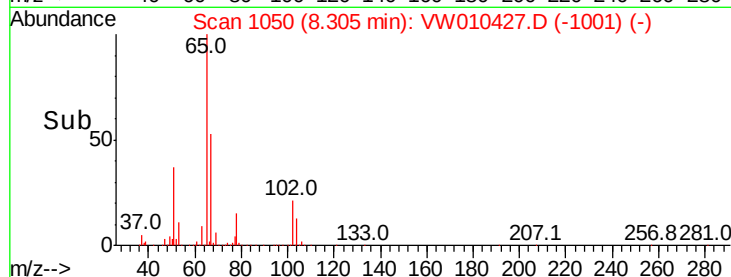
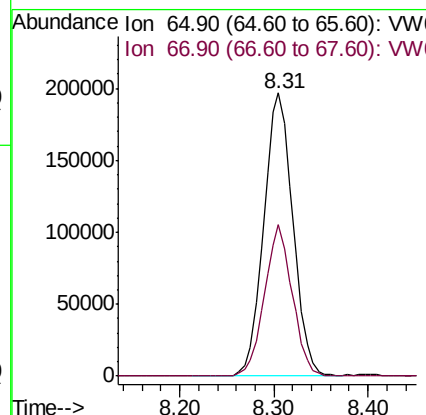
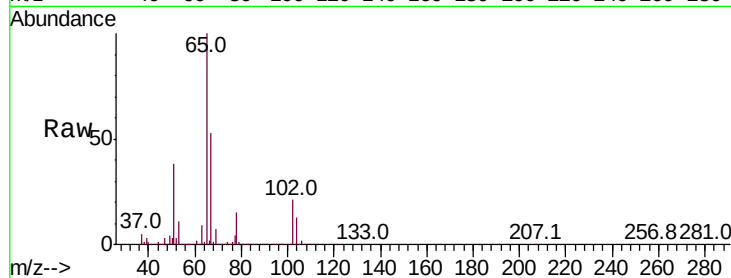
#33
 1,2-Dichloroethane-d4
 Concen: 63.280 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	104.2

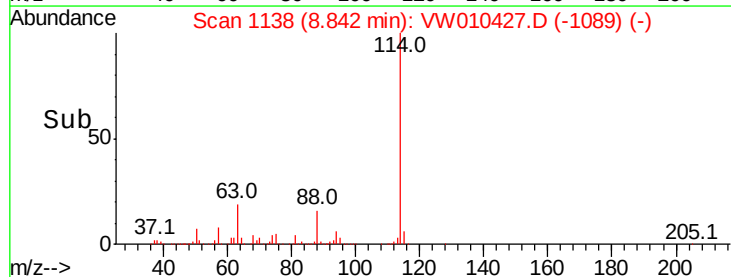
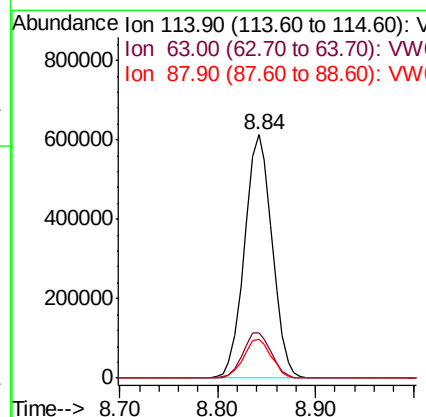
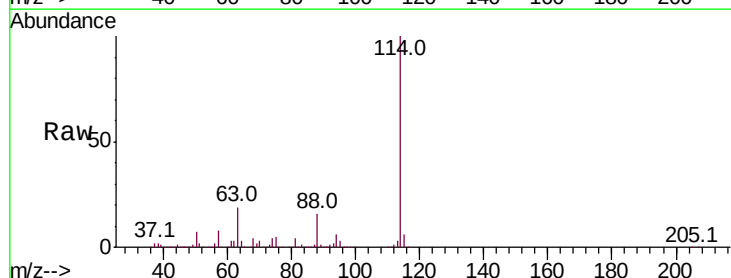
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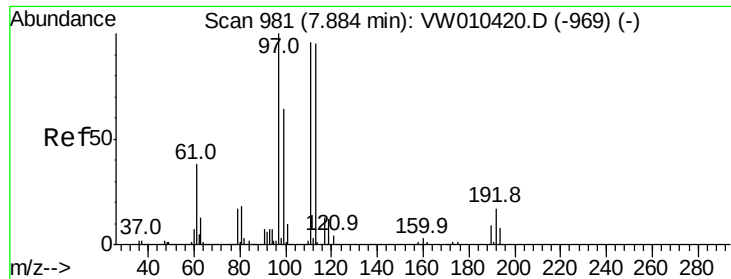
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.8
88	16.1	0.0	31.6





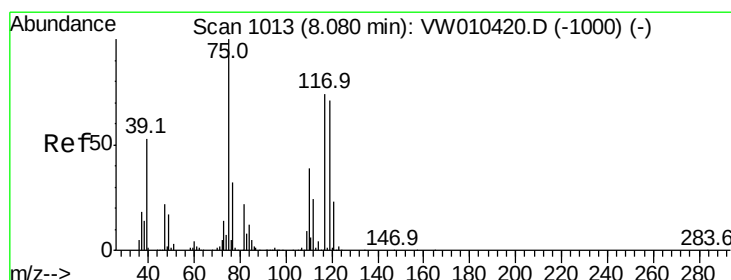
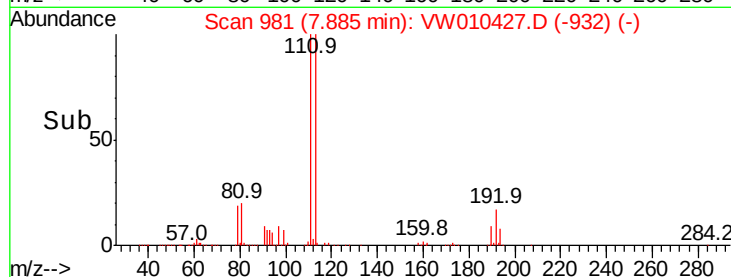
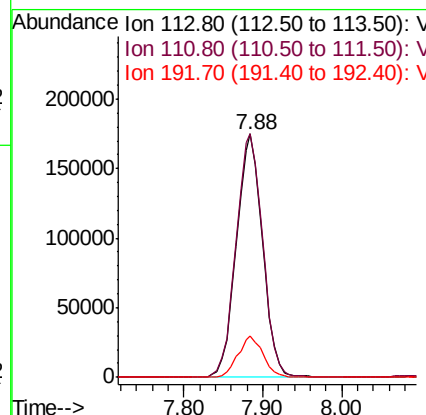
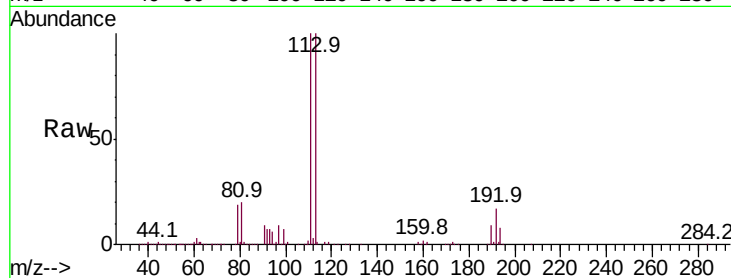
#35
 Dibromofluoromethane
 Concen: 54.034 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.3	82.5	123.7	
192	16.5	14.2	21.4	

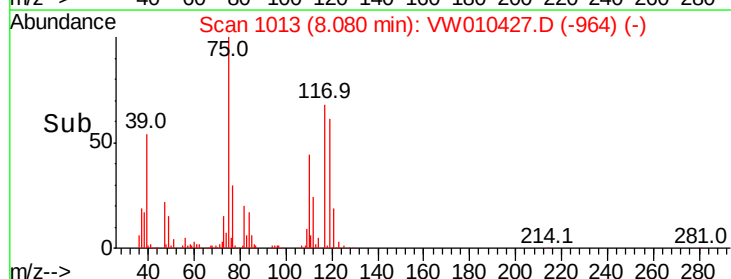
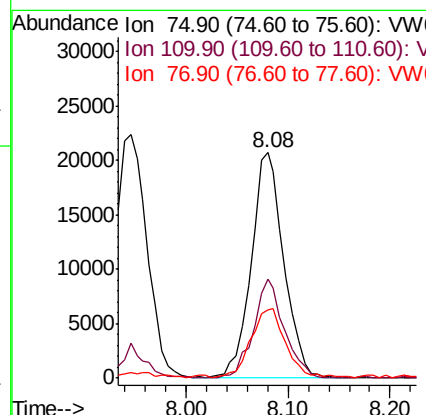
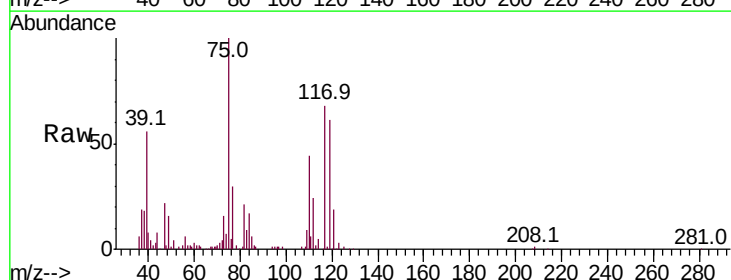
Manual Integrations
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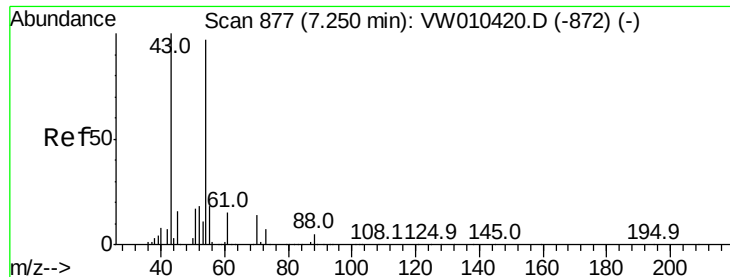
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#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	41.6	19.4	58.1	
77	33.5	24.7	37.1	





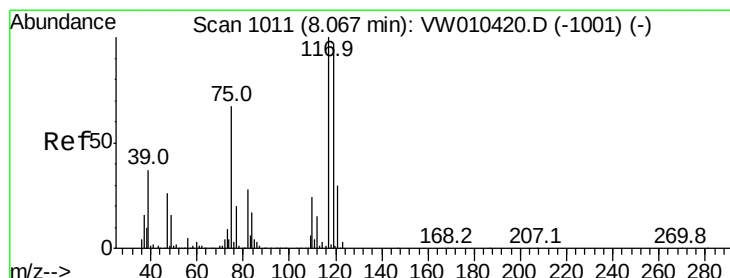
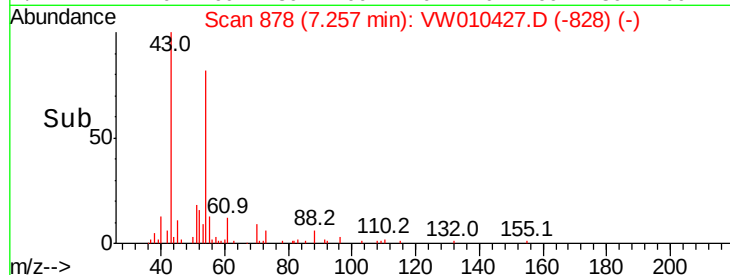
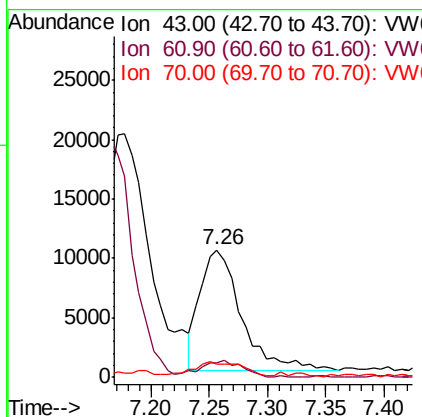
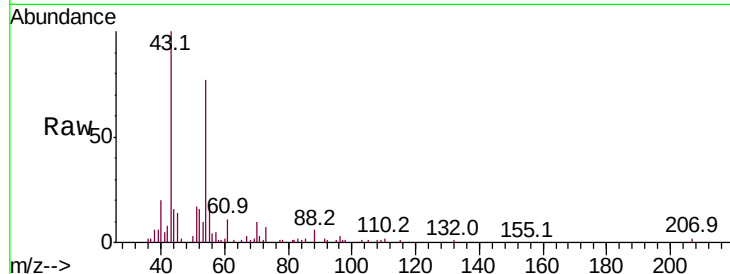
#37
Ethyl Acetate
Concen: 4.937 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleID :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.8	17.6
70	13.4	9.4	14.0

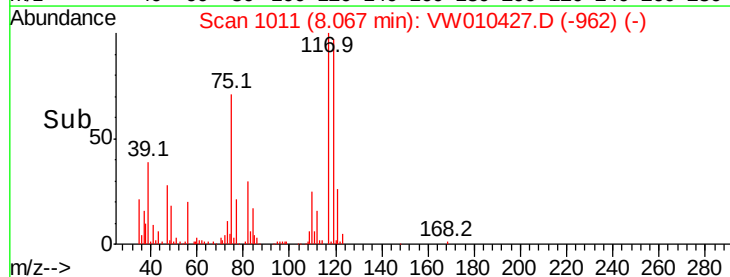
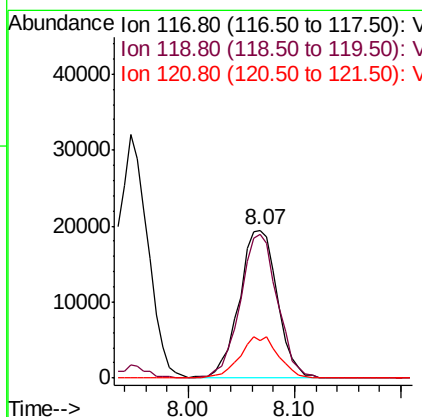
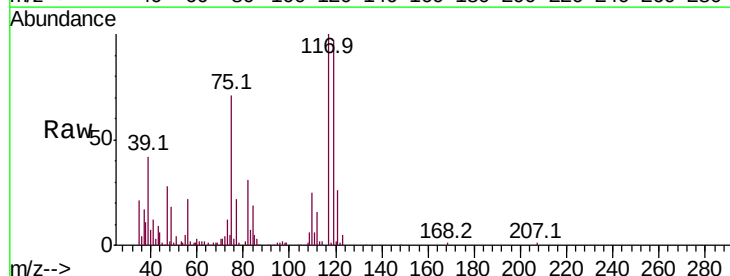
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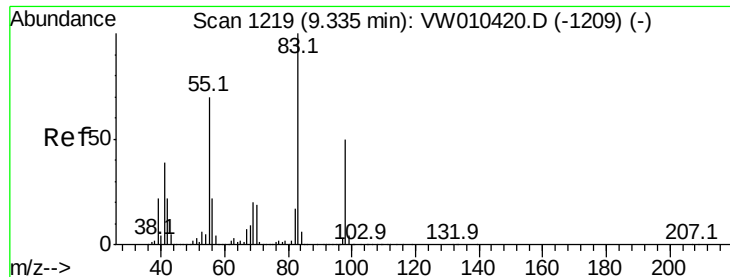
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#38
Carbon Tetrachloride
Concen: 4.264 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.4	77.8	116.6
121	25.7	24.2	36.2





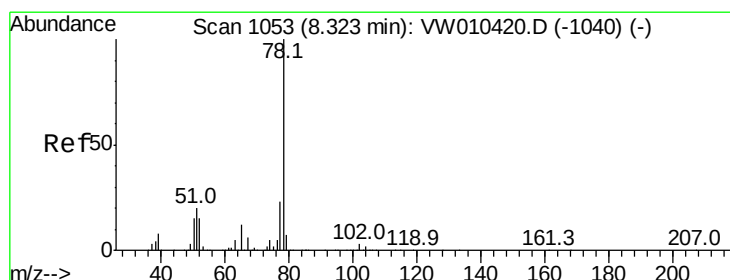
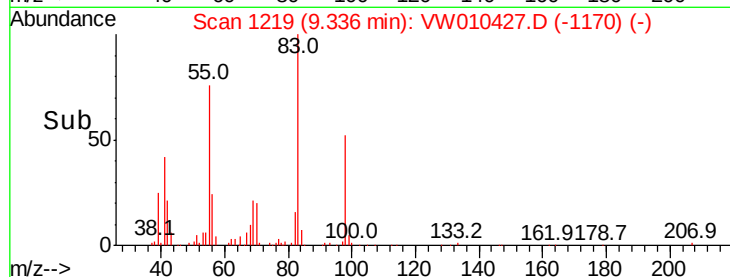
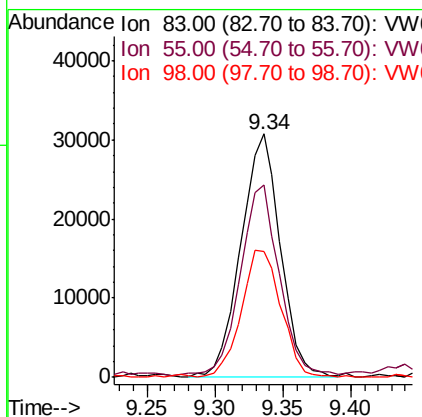
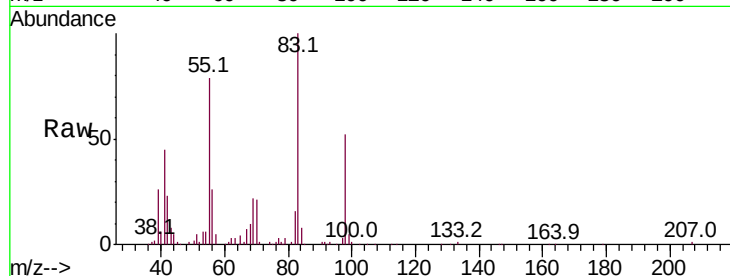
#39
Methylvlcyclohexane
Concen: 4.356 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.8	55.7	83.5
98	51.5	40.2	60.4

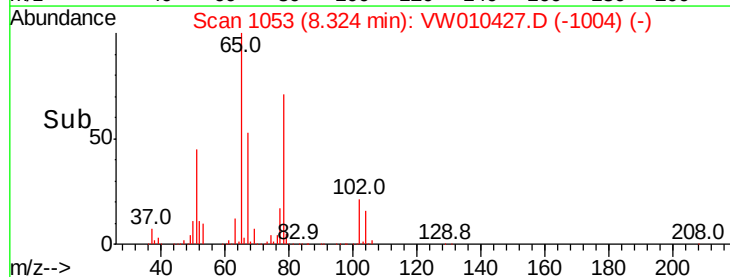
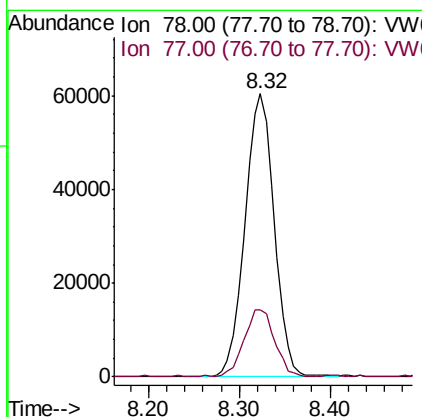
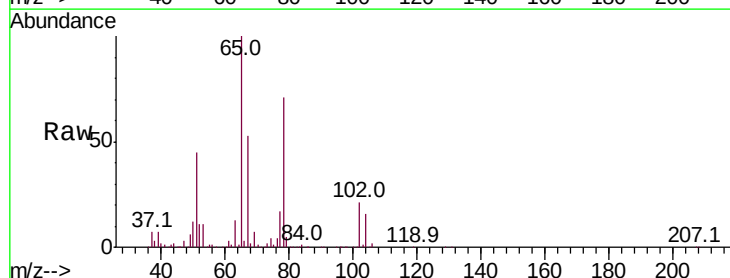
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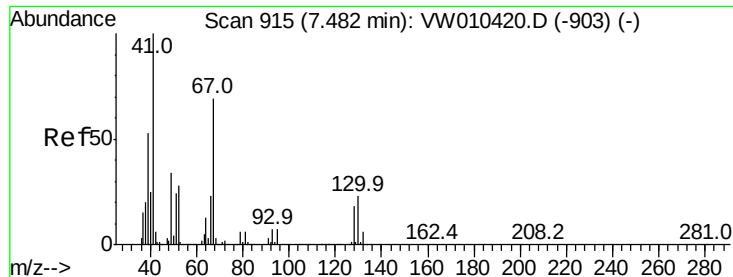
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#40
Benzene
Concen: 4.444 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1





#41

Methacrylonitrile

Concen: 5.087 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

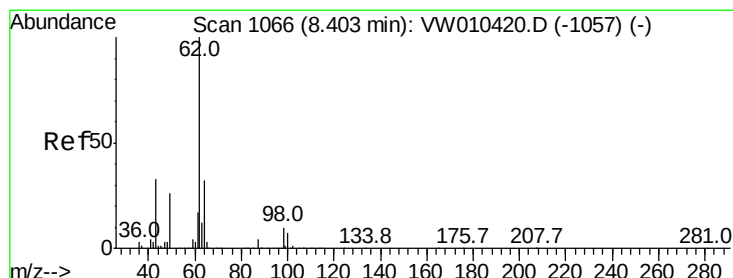
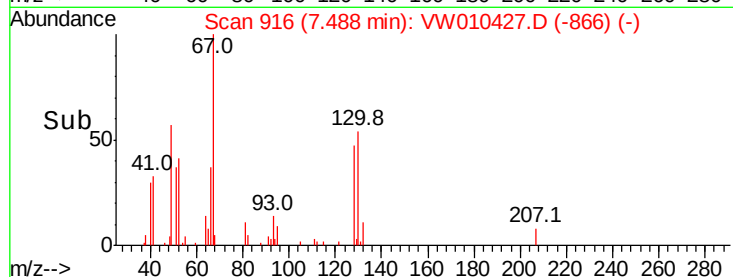
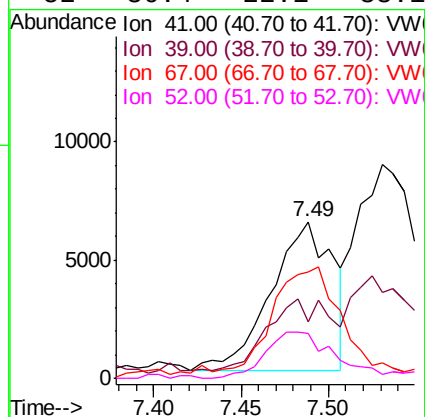
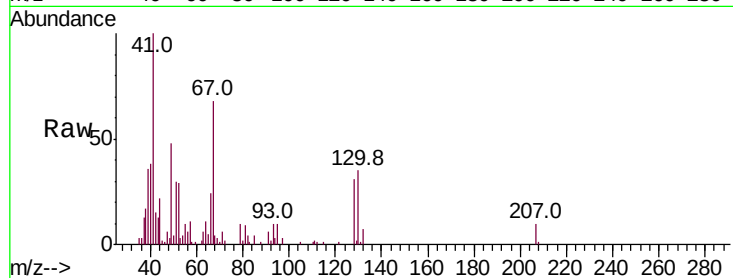
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	48.7	38.1	57.1
67	85.2	55.5	83.3#
52	36.4	22.1	33.1#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 4.867 ug/l

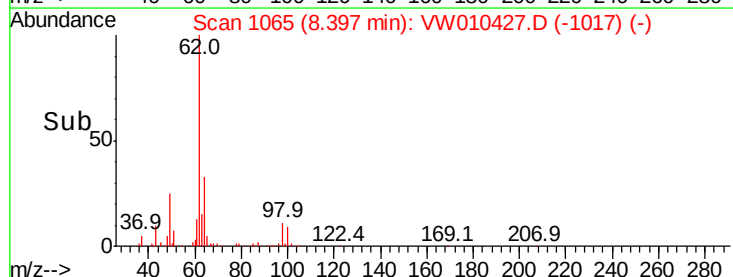
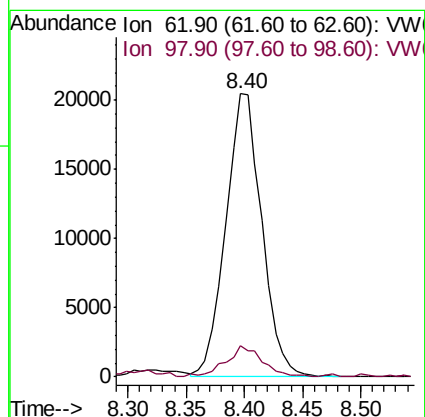
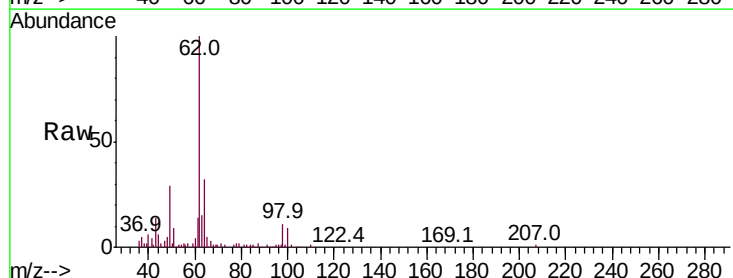
RT: 8.40 min Scan# 1065

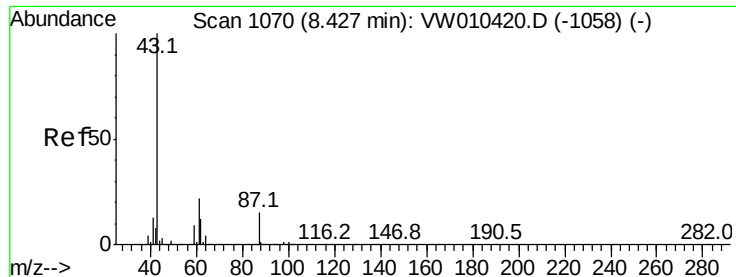
Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.4	0.0	20.2





#43

Isopropyl Acetate

Concen: 4.870 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

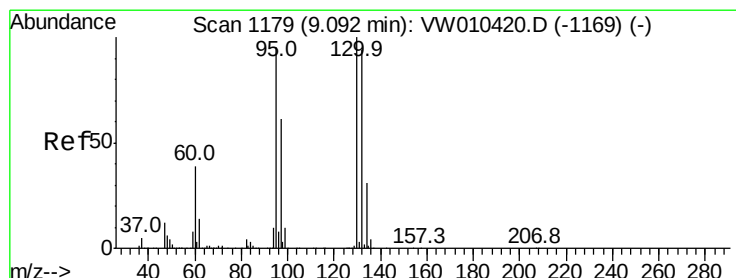
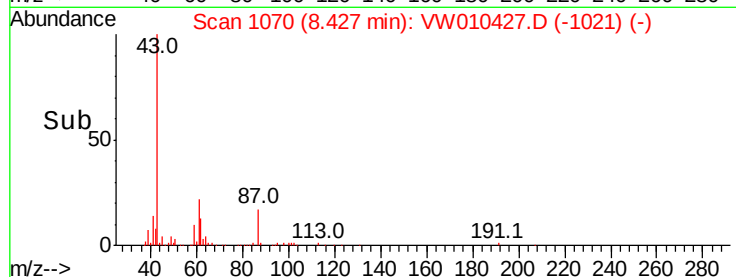
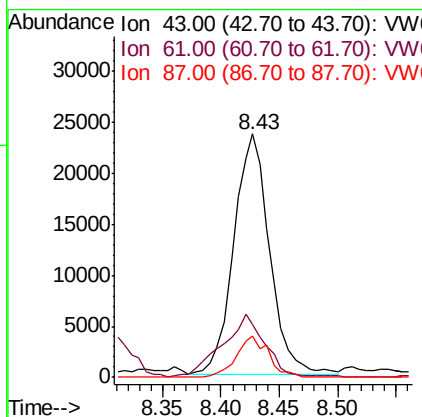
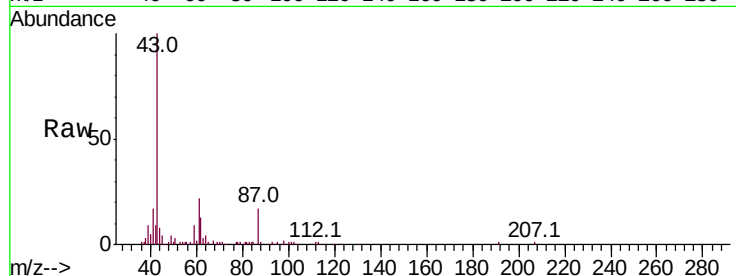
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	43	Resp:	50570
Ion	Ratio	Lower	Upper
43	100		
61	31.7	24.4	36.6
87	15.5	11.8	17.8

Manual Integrations
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#44

Trichloroethene

Concen: 4.438 ug/l

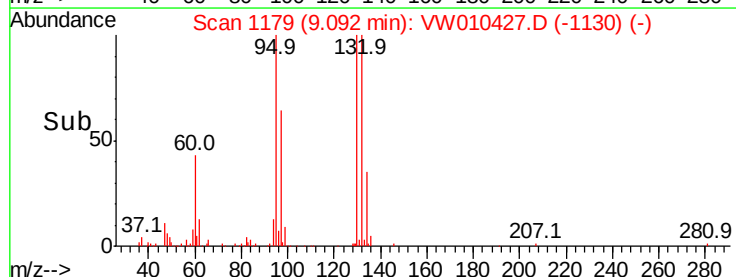
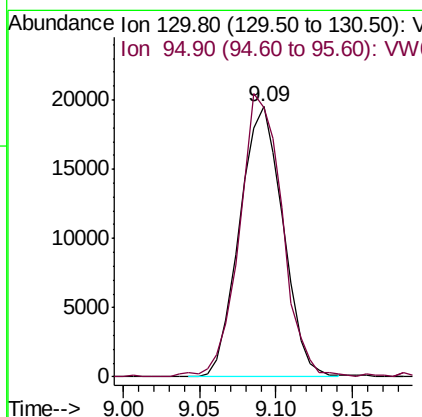
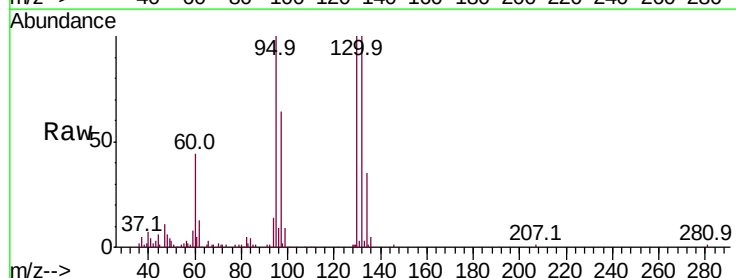
RT: 9.09 min Scan# 1179

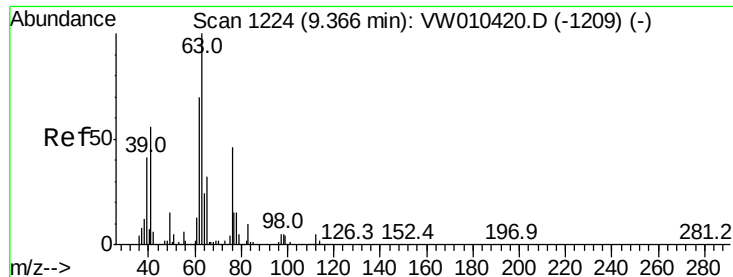
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	130	Resp:	38567
Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	190.4





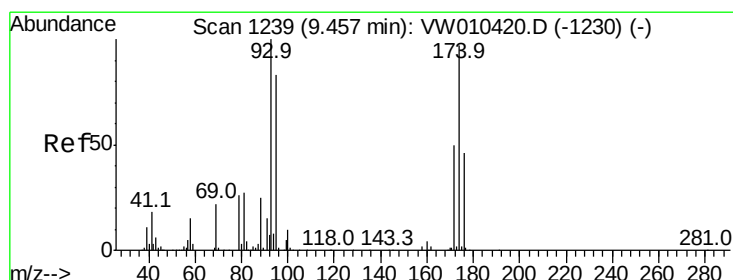
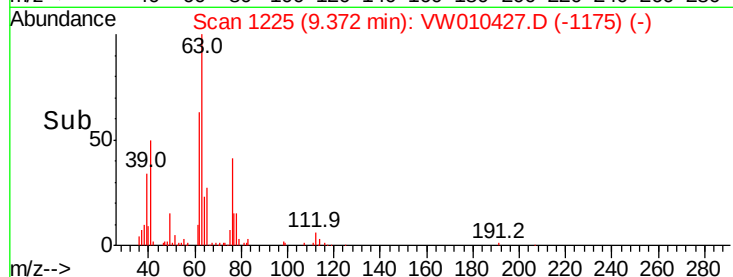
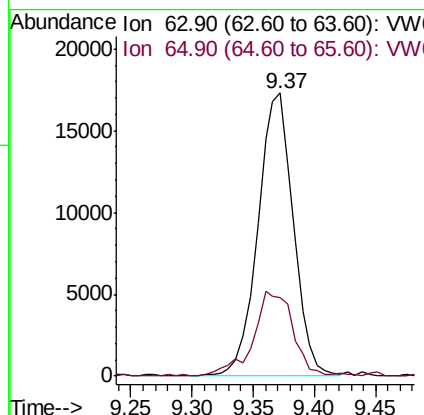
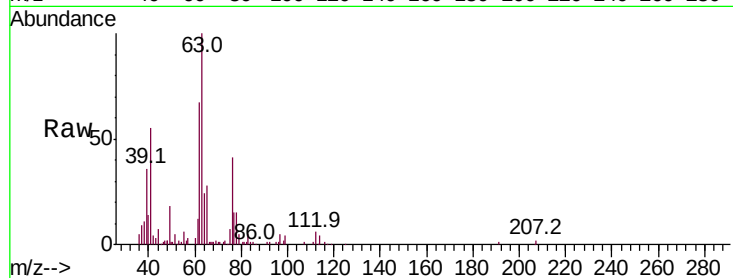
#45
1,2-Dichloropropane
Concen: 4.693 ug/l
RT: 9.37 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
63	100	34848		
65	27.9		25.4	38.2

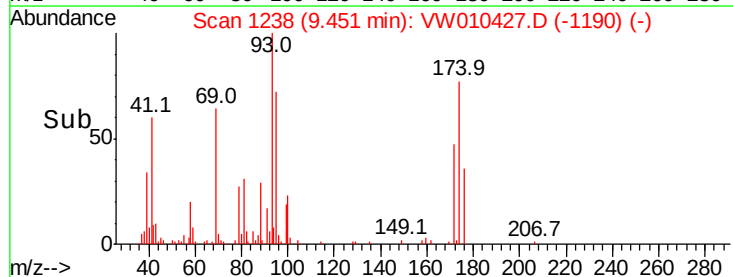
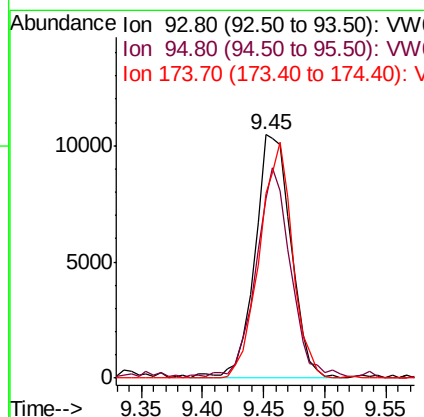
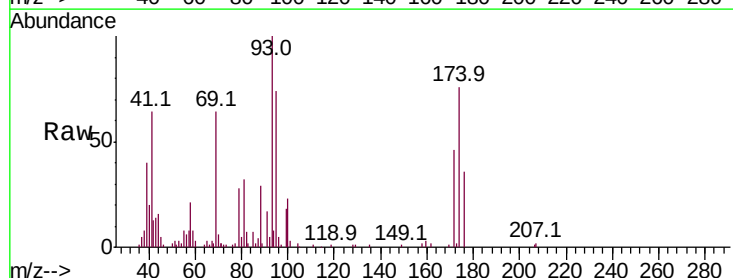
Manual Integrations
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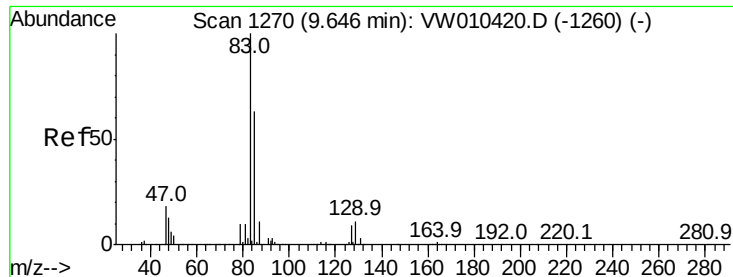
MMDadoda
5/20/2019 12:15:19 PM



#46
Dibromomethane
Concen: 4.908 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	21527		
95	83.8		66.6	100.0
174	88.0		76.4	114.6





#47

Bromodichloromethane

Concen: 4.508 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

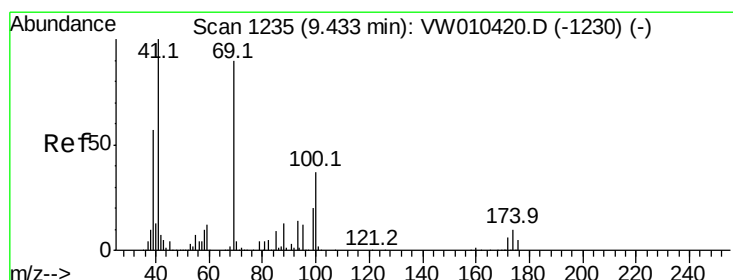
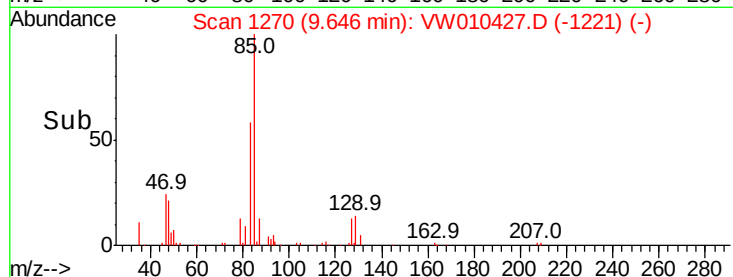
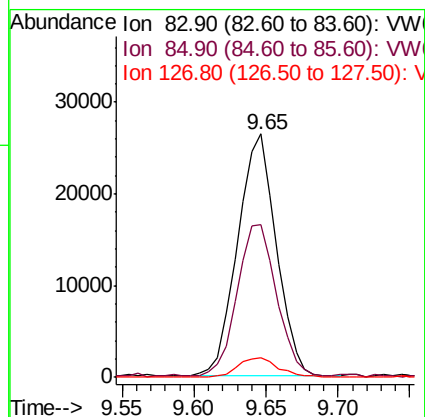
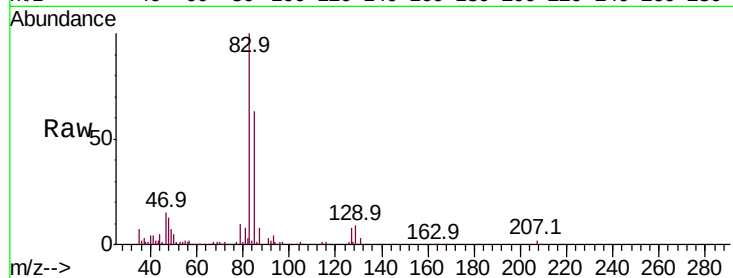
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	49129
Ion Ratio	Lower	Upper	
83	100		
85	62.3	50.0	75.0
127	8.3	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.580 ug/l

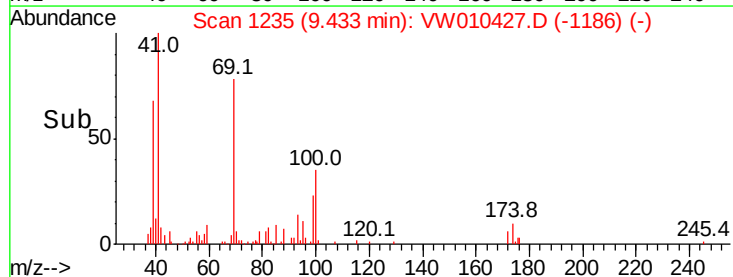
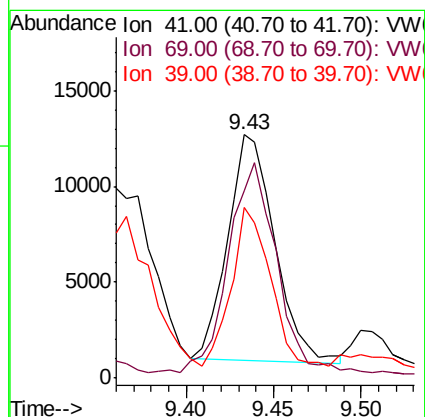
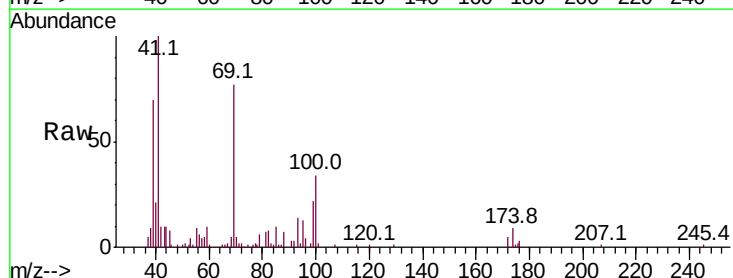
RT: 9.43 min Scan# 1235

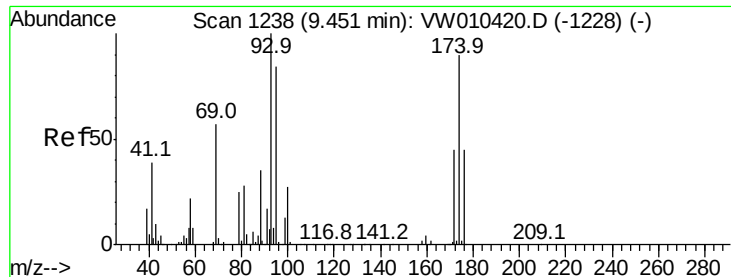
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	41	Resp:	21916
Ion Ratio	Lower	Upper	
41	100		
69	100.6	75.2	112.8
39	65.3	46.8	70.2





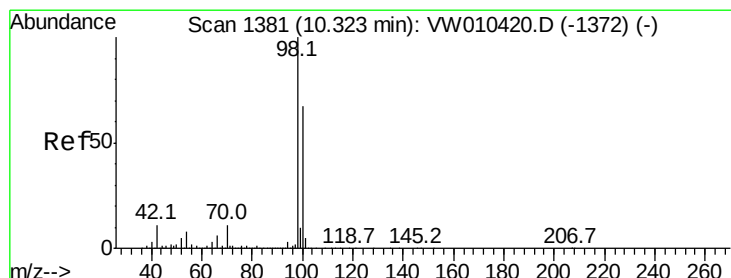
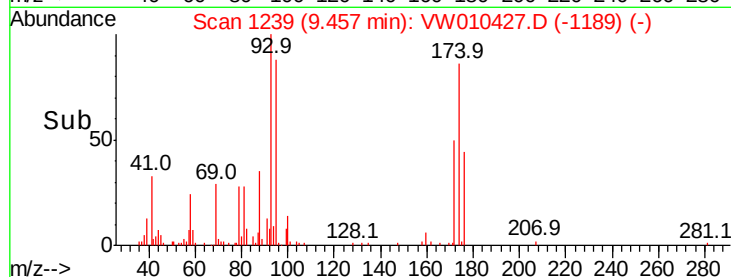
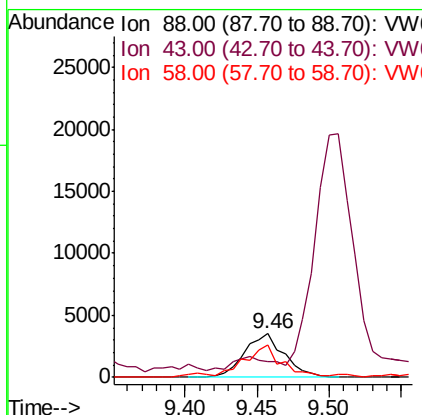
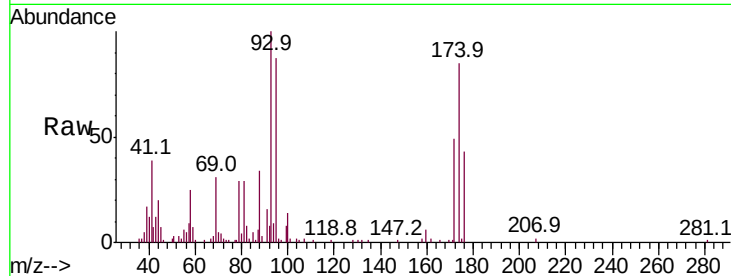
#49
1,4-Dioxane
Concen: 102.772 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	88	Resp	6671
Ion	Ratio	Lower	Upper
88	100		
43	29.6	24.9	37.3
58	76.4	55.0	82.6

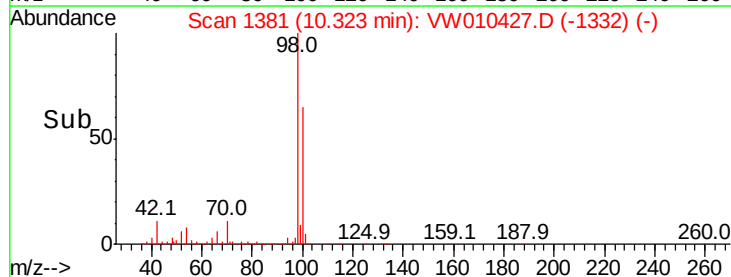
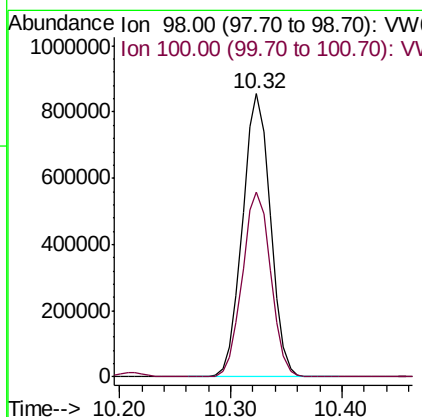
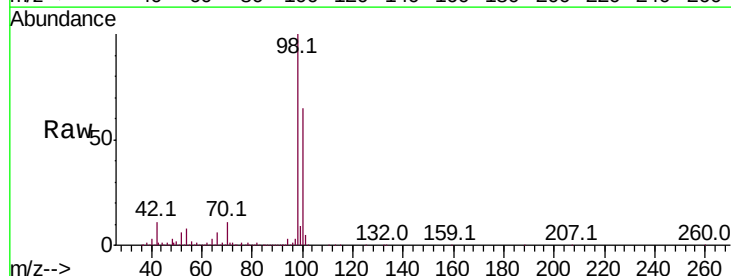
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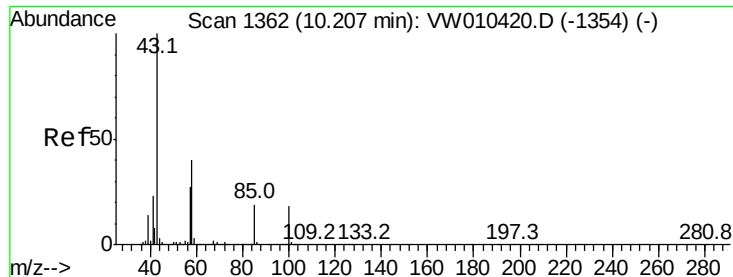
MMDadoda
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#50
Toluene-d8
Concen: 53.858 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	98	Resp	1489138
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.3	79.9





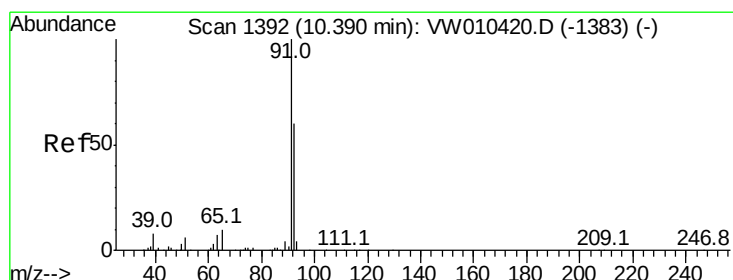
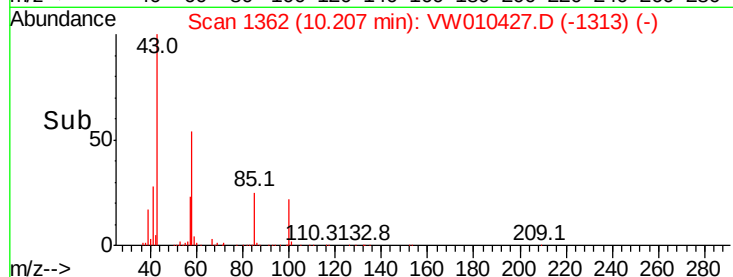
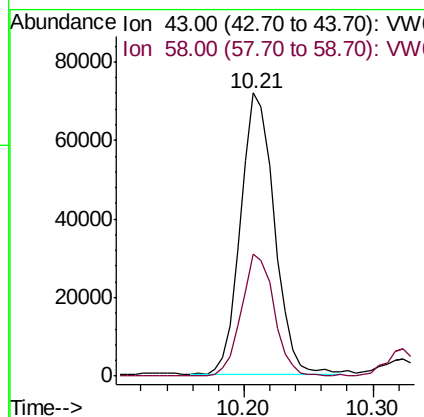
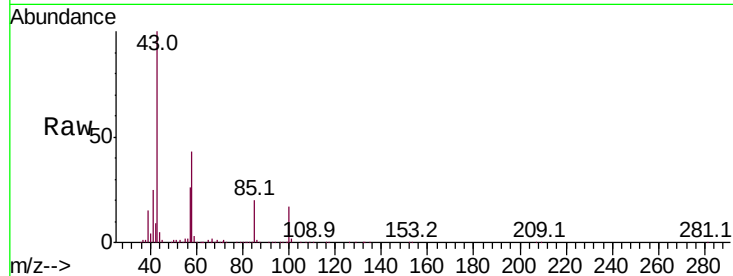
#51
4-Methyl-2-Pentanone
Concen: 24.577 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	43	58	Ratio	100	41.7	Resp	130544	Lower	32.7	Upper	49.1
Ion	43	58	Ratio	100	41.7	Resp	130544	Lower	32.7	Upper	49.1

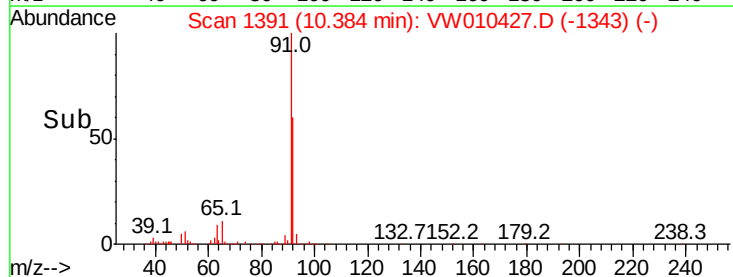
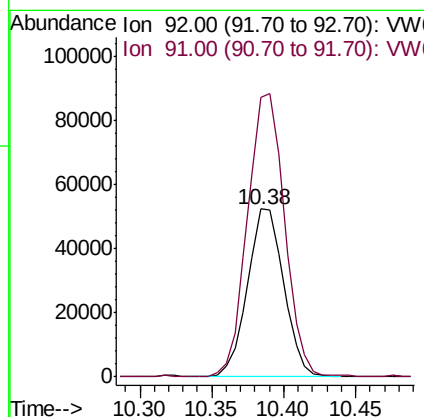
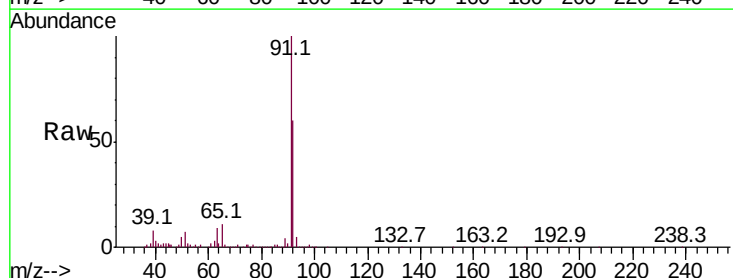
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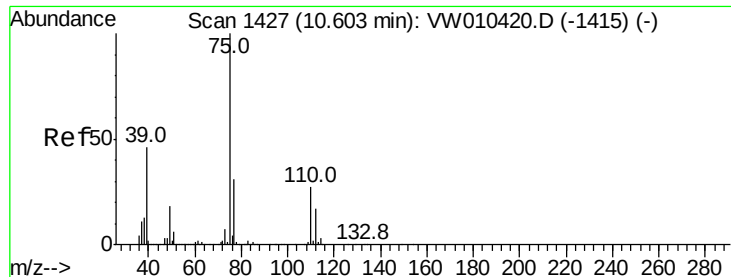
MMDadoda
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#52
Toluene
Concen: 4.510 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	92	91	Ratio	100	172.8	Resp	90844	Lower	135.4	Upper	203.0
Ion	92	91	Ratio	100	172.8	Resp	90844	Lower	135.4	Upper	203.0





#53

t-1,3-Dichloropropene

Concen: 4.434 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 75 Resp: 49836

Ion Ratio Lower Upper

75 100

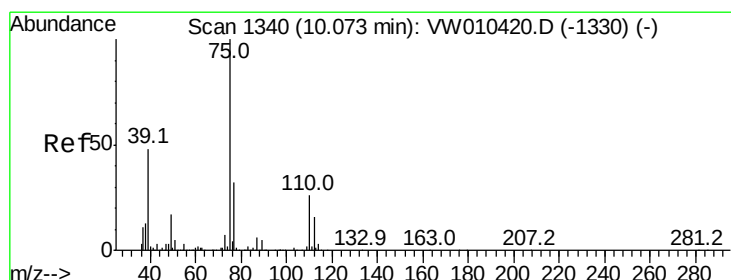
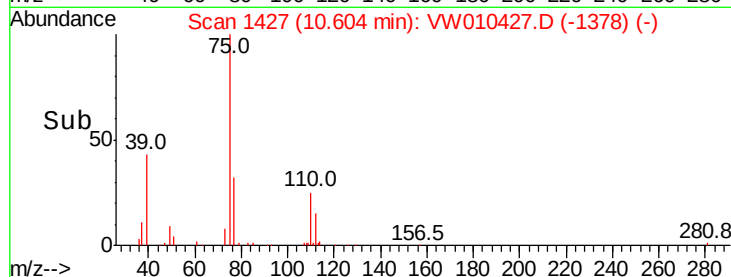
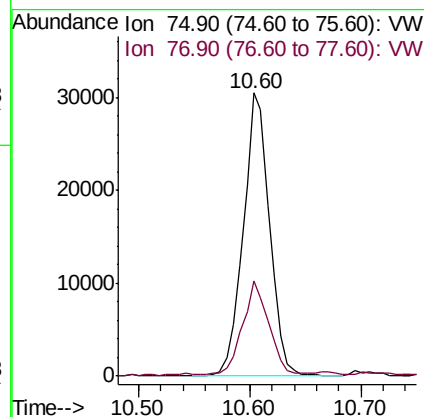
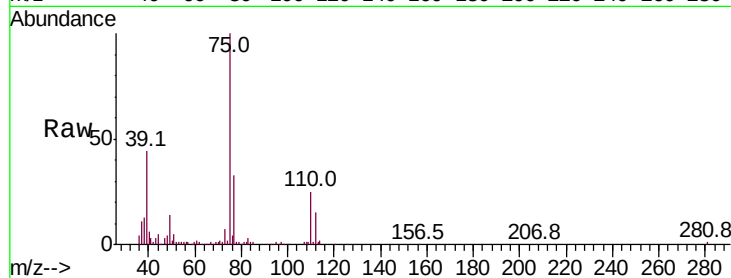
77 32.9 24.6 37.0

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 4.399 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

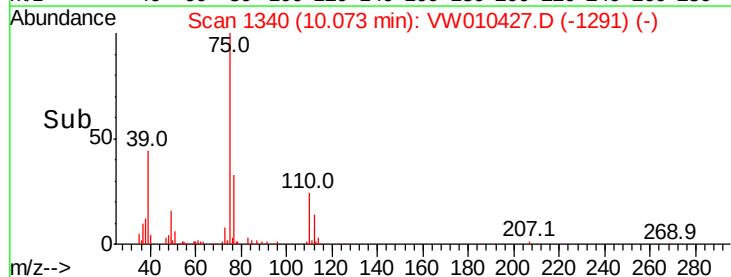
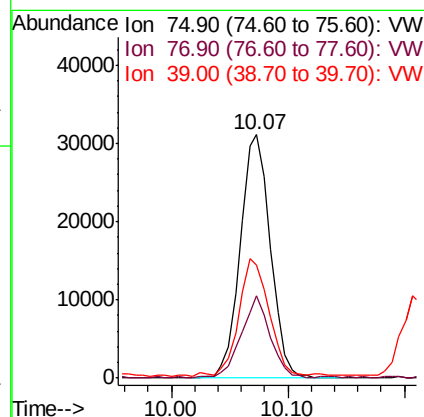
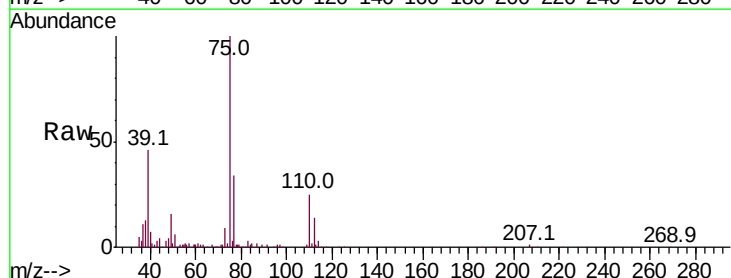
Tgt Ion: 75 Resp: 56056

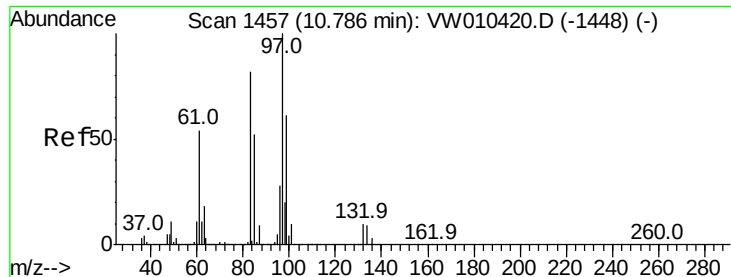
Ion Ratio Lower Upper

75 100

77 33.4 25.2 37.8

39 45.4 38.1 57.1





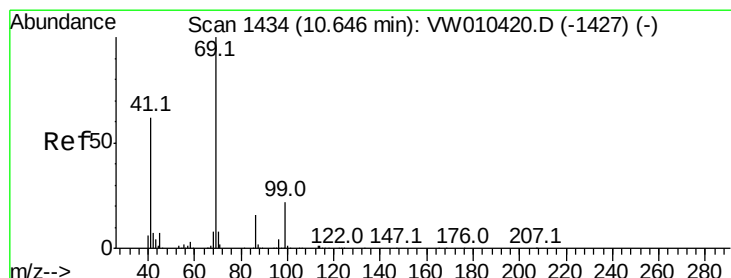
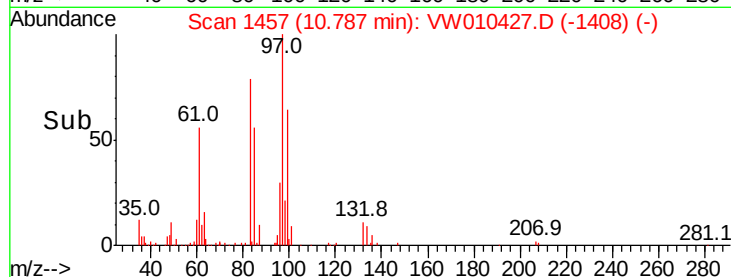
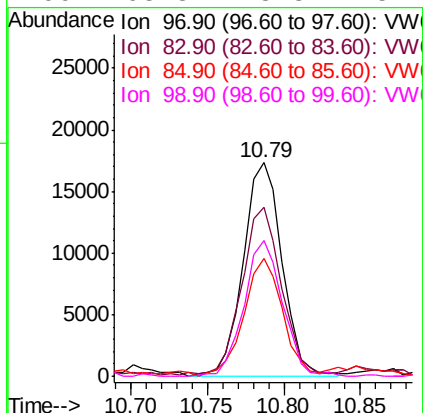
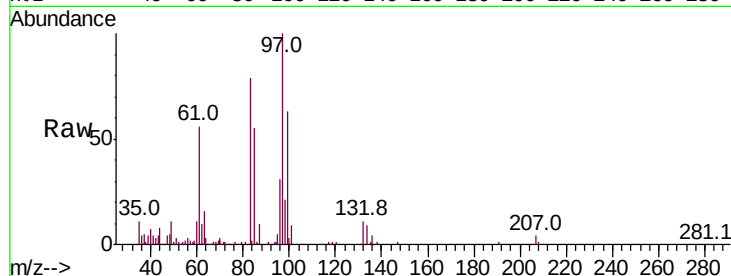
#55
 1,1,2-Trichloroethane
 Concen: 4.838 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	77.8	65.6	98.4
85	53.7	41.6	62.4
99	63.3	48.8	73.2

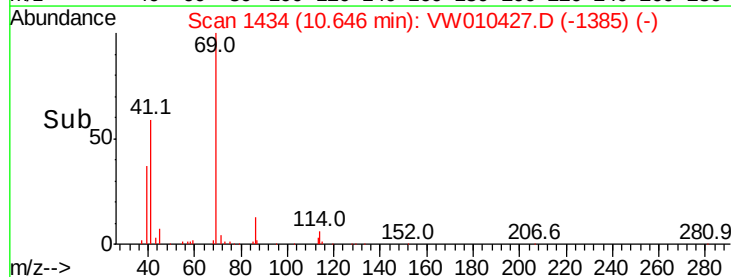
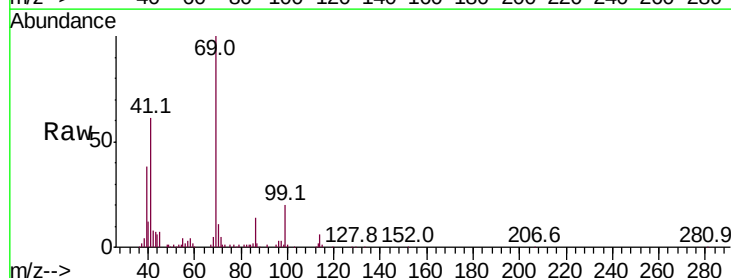
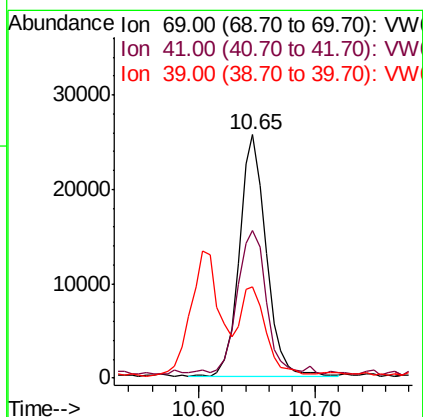
Manual Integrations
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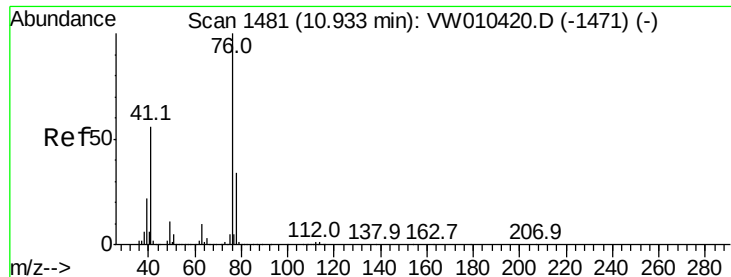
MMDadoda
 5/20/2019 12:15:19 PM



#56
 Ethyl methacrylate
 Concen: 4.615 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.7	50.0	75.0
39	35.5	26.5	39.7





#57

1,3-Dichloropropane

Concen: 4.805 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 76 Resp: 50976

Ion Ratio Lower Upper

76 100

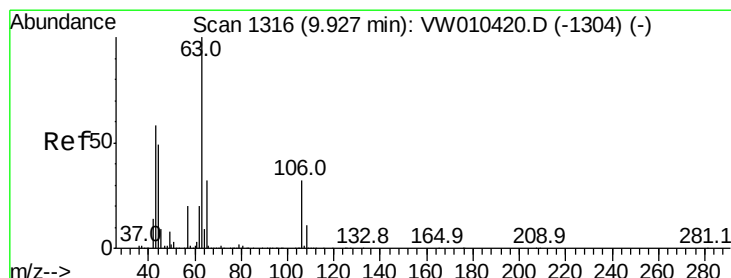
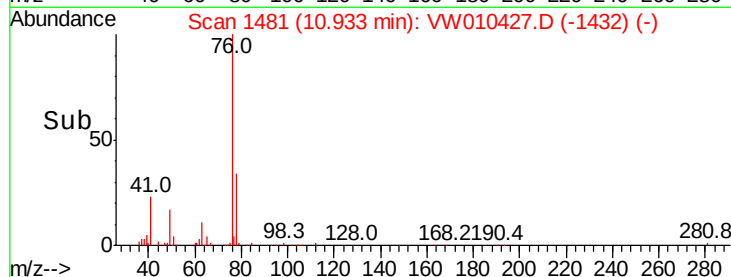
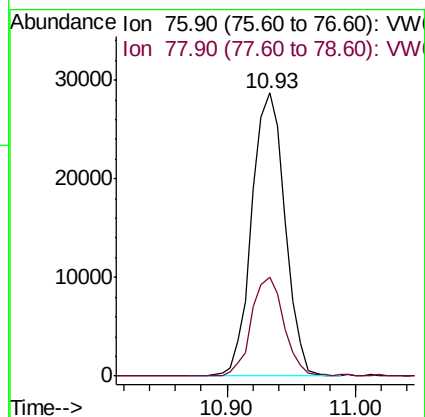
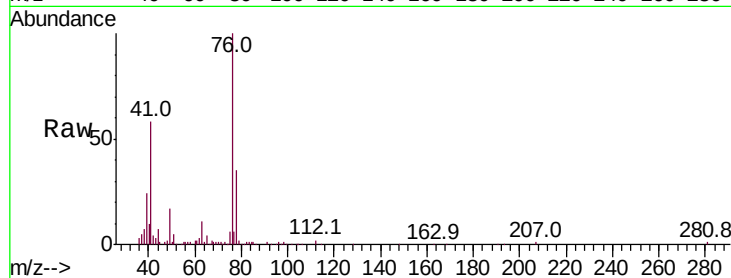
78 34.2 25.8 38.8

Manual Integrations

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5/20/2019 12:15:19 PM



#58

2-Chloroethyl Vinyl ether

Concen: 21.706 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VW010427.D

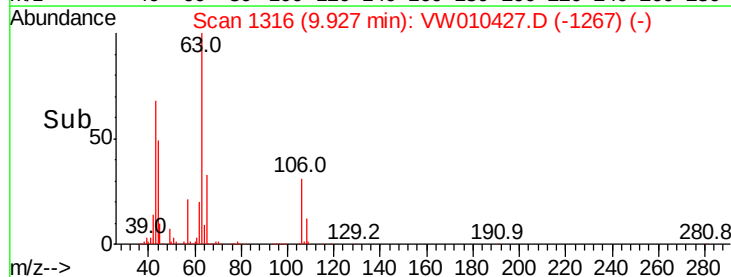
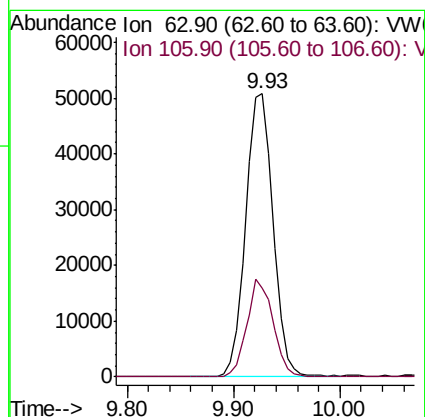
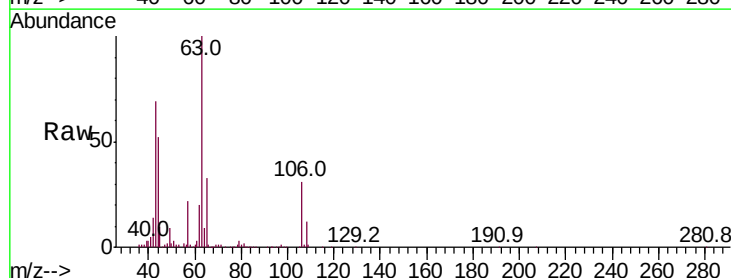
Acq: 17 May 2019 23:39

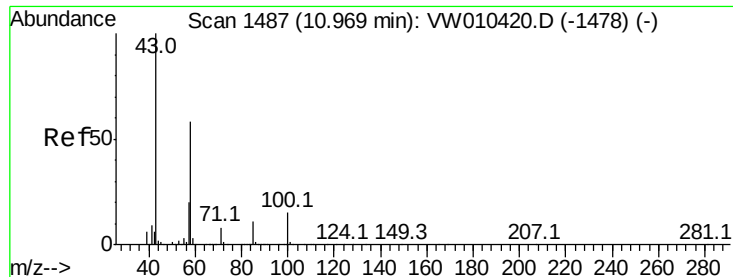
Tgt Ion: 63 Resp: 92095

Ion Ratio Lower Upper

63 100

106 32.8 25.2 37.8





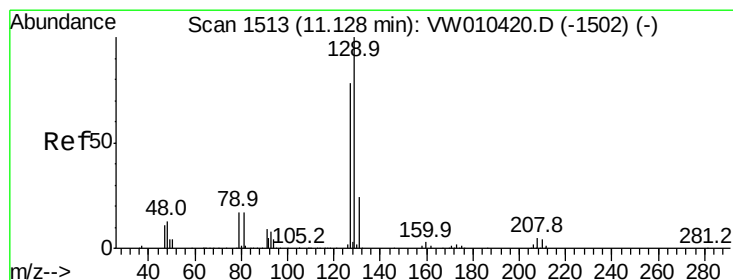
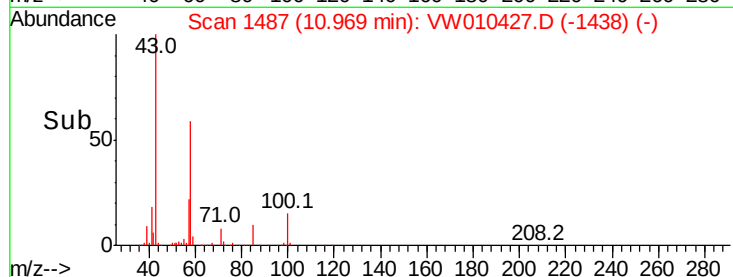
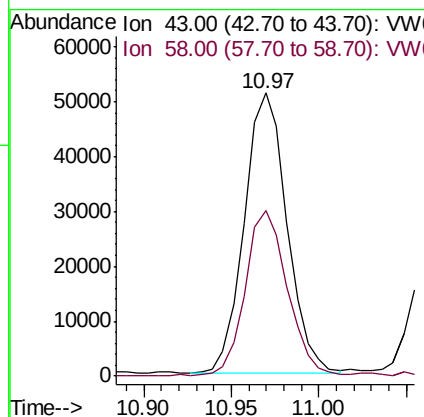
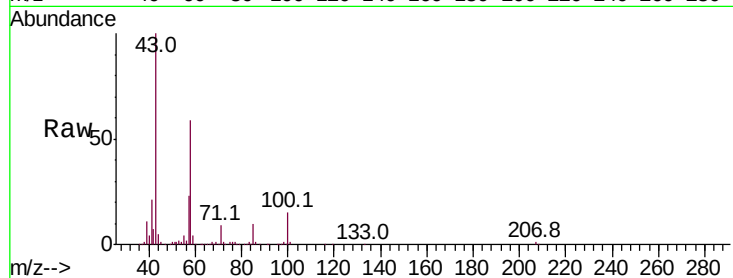
#59
2-Hexanone
Concen: 23.504 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.6	28.5	85.6

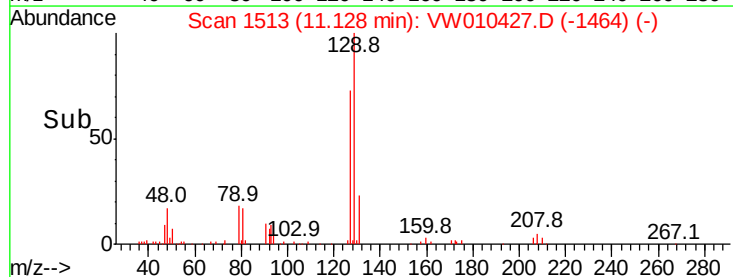
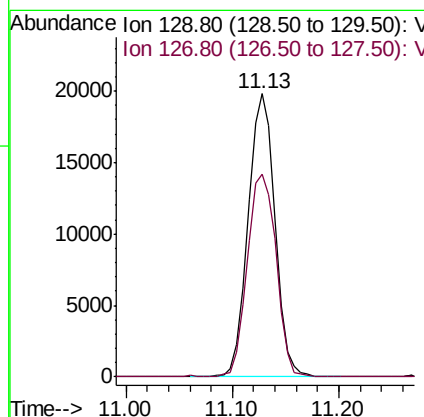
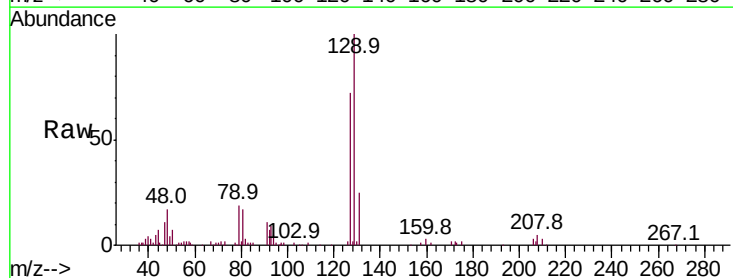
Manual Integrations
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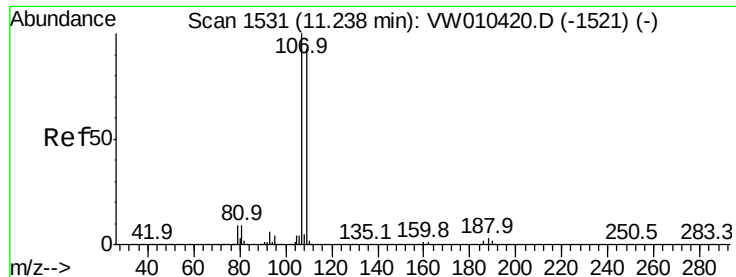
MMDadoda
5/20/2019 12:15:19 PM



#60
Dibromochloromethane
Concen: 4.477 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.0	116.9





#61

1,2-Dibromoethane

Concen: 4.722 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 107 Resp: 30284

Ion Ratio Lower Upper

107 100

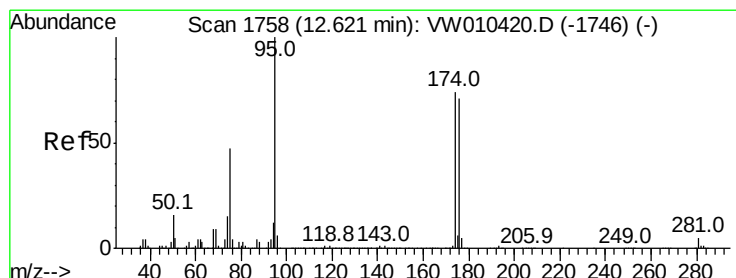
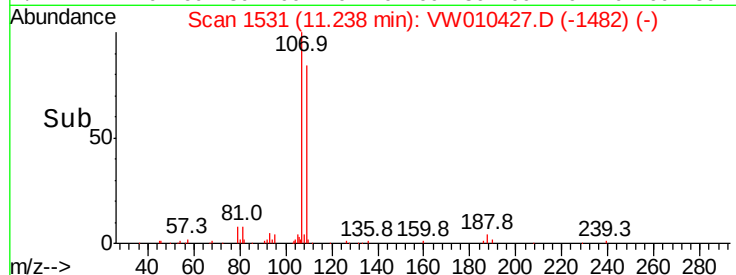
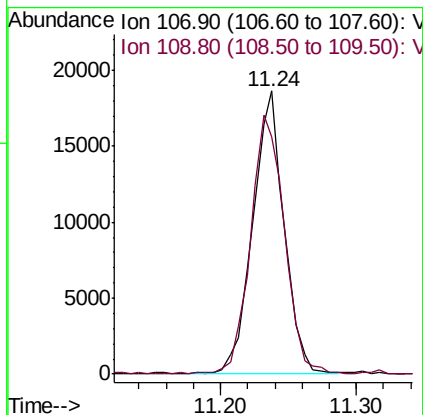
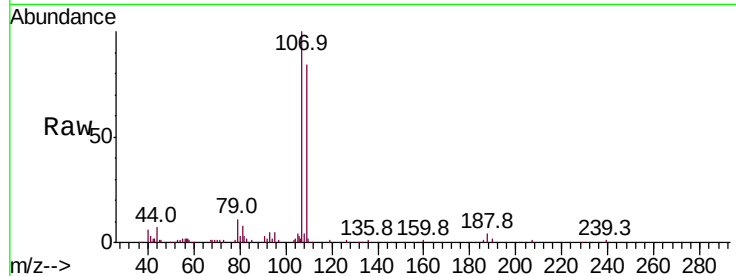
109 98.6 74.8 112.2

Manual Integrations

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5/20/2019 12:15:19 PM



#62

4-Bromofluorobenzene

Concen: 53.834 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

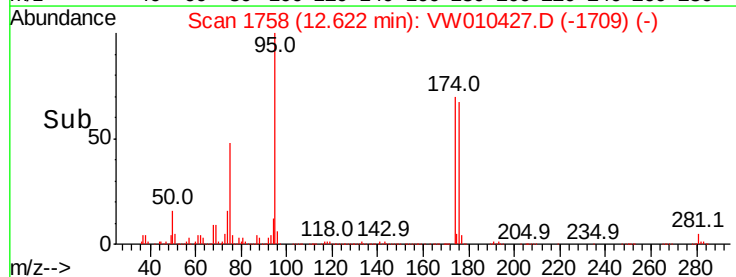
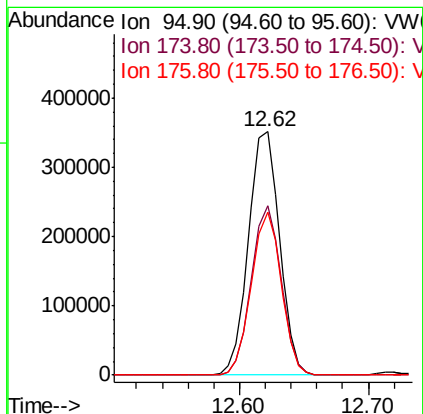
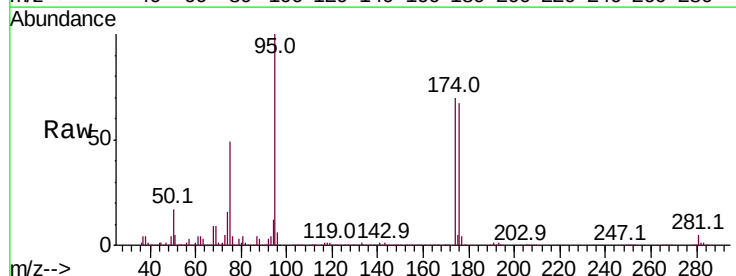
Tgt Ion: 95 Resp: 584385

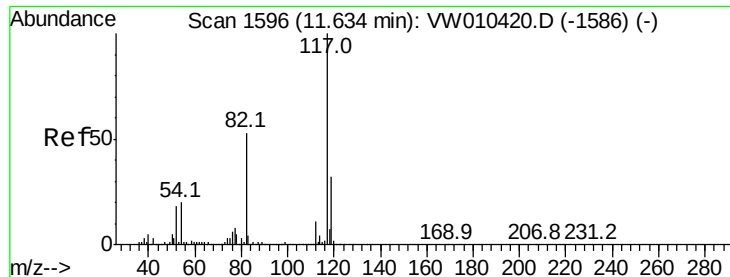
Ion Ratio Lower Upper

95 100

174 67.0 0.0 146.6

176 64.5 0.0 141.4





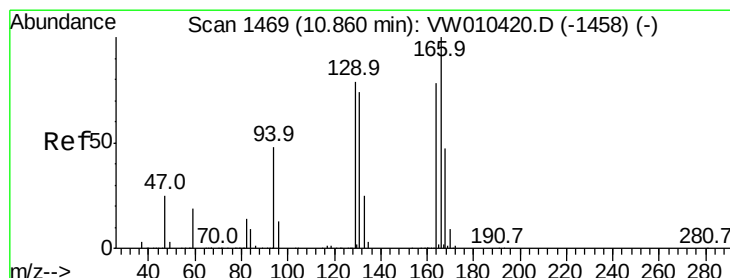
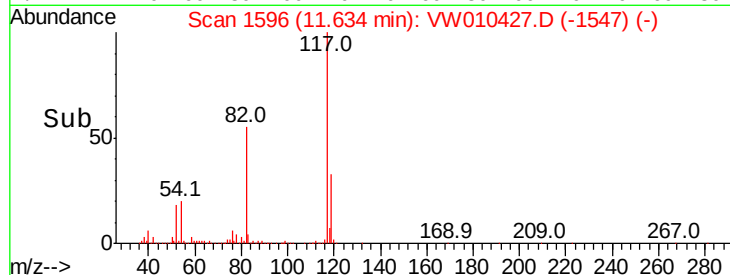
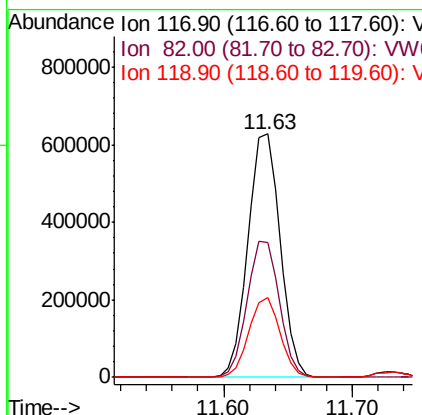
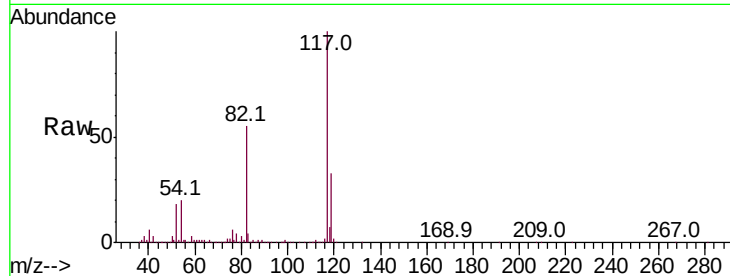
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:117 Resp: 1080880
Ion Ratio Lower Upper
117 100
82 55.2 42.1 63.1
119 32.6 25.6 38.4

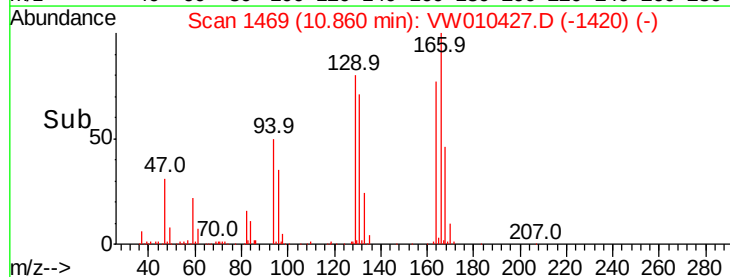
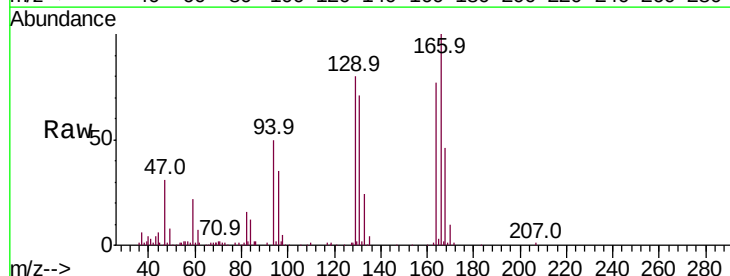
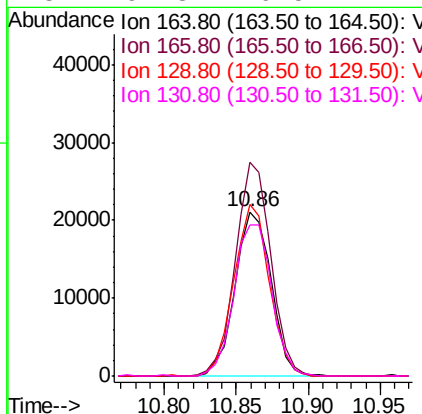
Manual Integrations
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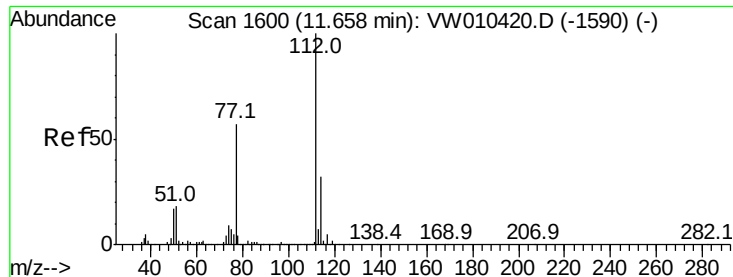
MMDadoda
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#64
Tetrachloroethene
Concen: 5.174 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion:164 Resp: 36782
Ion Ratio Lower Upper
164 100
166 130.0 103.2 154.8
129 104.3 81.6 122.4
131 91.8 76.5 114.7





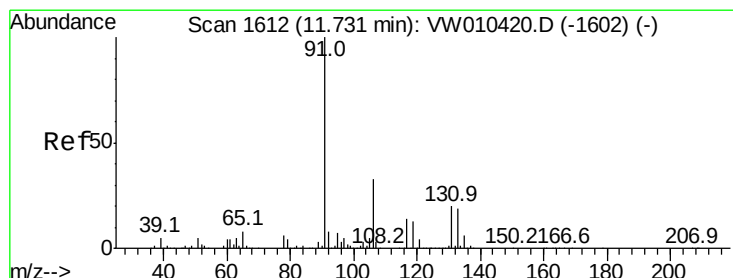
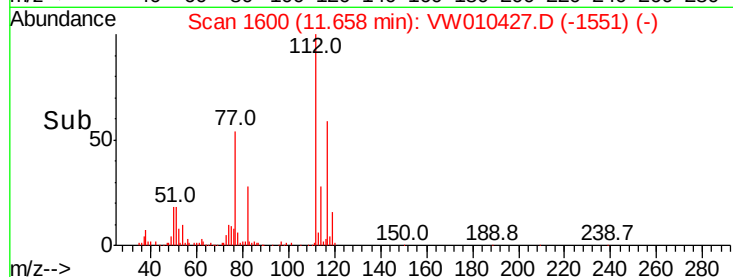
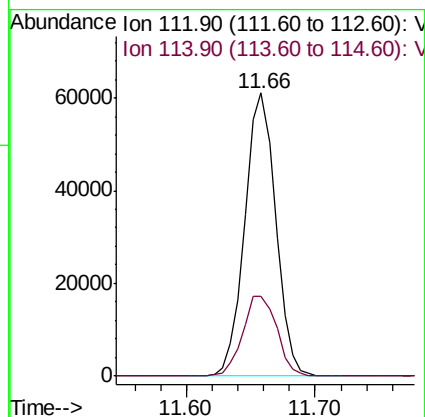
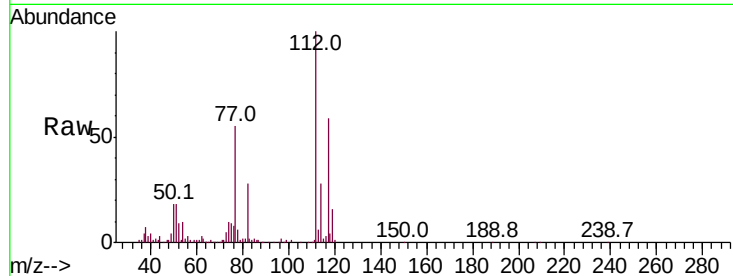
#65
Chlorobenzene
Concen: 4.615 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:112 Resp: 101287
Ion Ratio Lower Upper
112 100
114 28.2 25.8 38.6

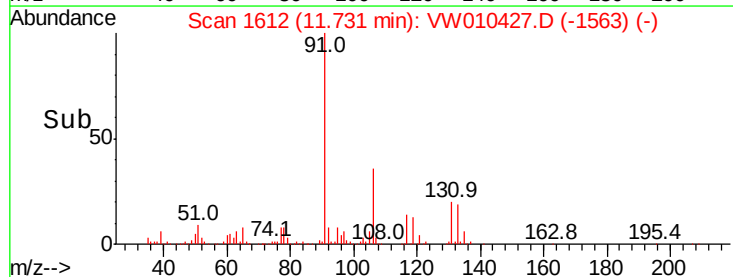
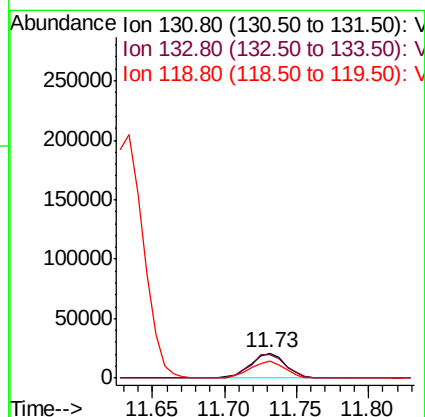
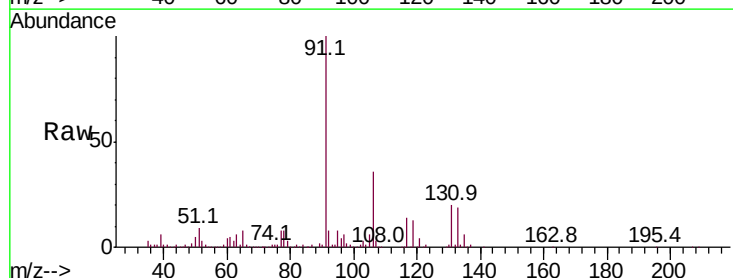
Manual Integrations
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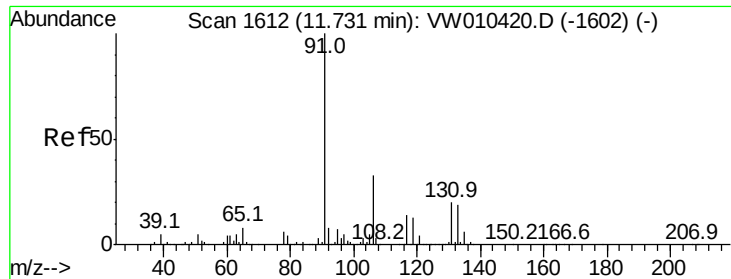
MMDadoda
5/20/2019 12:15:19 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.291 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion:131 Resp: 34777
Ion Ratio Lower Upper
131 100
133 97.2 48.3 144.8
119 69.3 32.4 97.0





#67

Ethyl Benzene

Concen: 4.484 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 173382

Ion Ratio Lower Upper

91 100

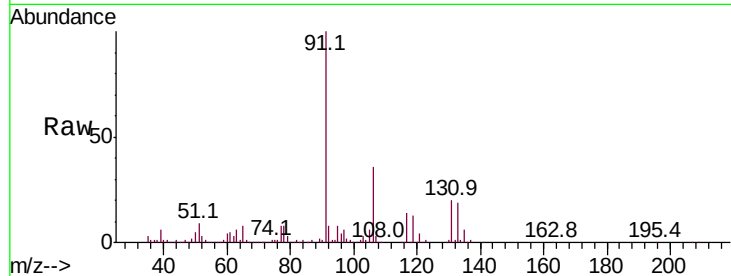
106 36.0 26.5 39.7

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

150000

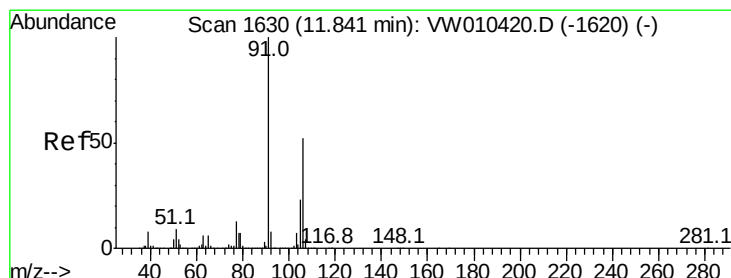
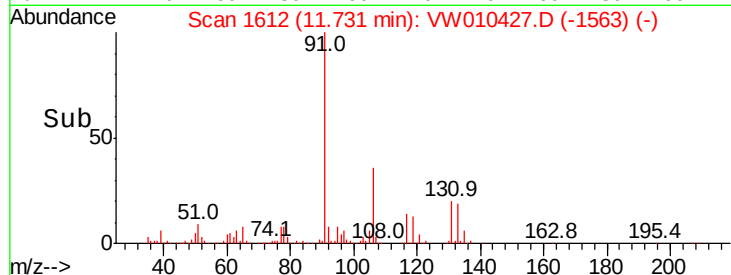
100000

50000

0

11.65 11.70 11.75 11.80

Time-->



#68

m/p-Xylenes

Concen: 8.922 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010427.D

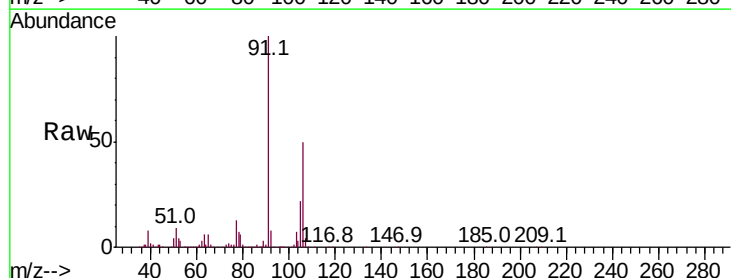
Acq: 17 May 2019 23:39

Tgt Ion: 106 Resp: 135009

Ion Ratio Lower Upper

106 100

91 199.8 156.2 234.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

150000

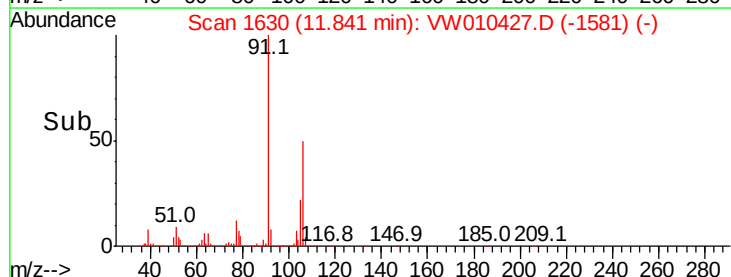
100000

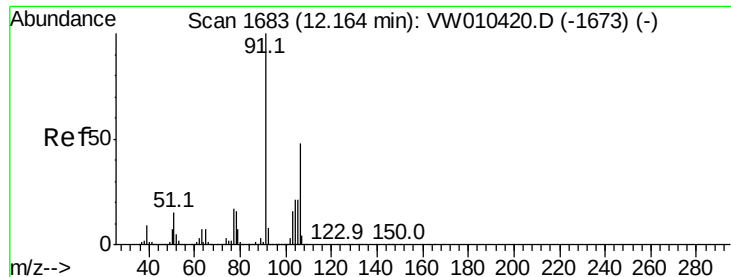
50000

0

11.80 11.90

Time-->





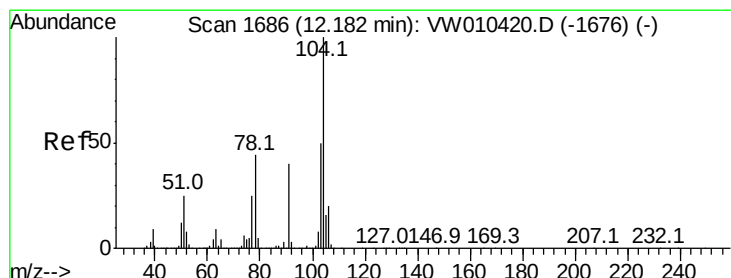
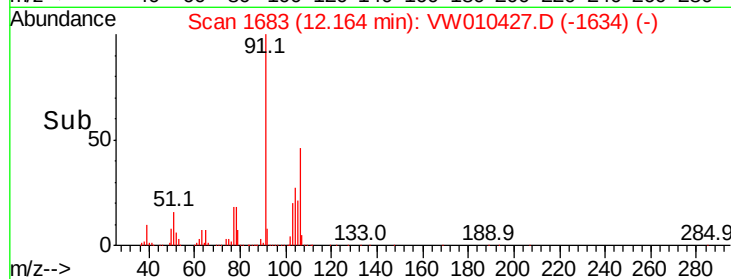
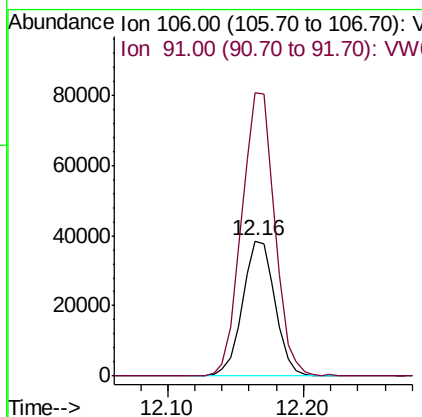
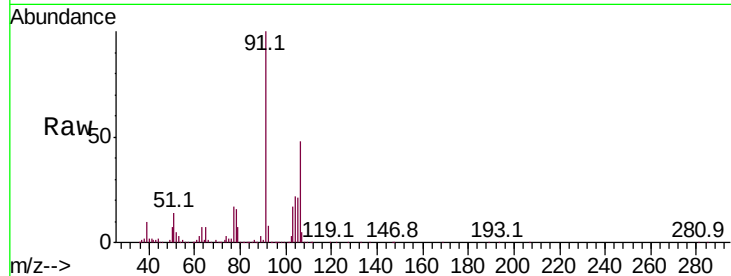
#69
o-Xylene
Concen: 4.430 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
106	100		
91	214.0	102.5	307.5

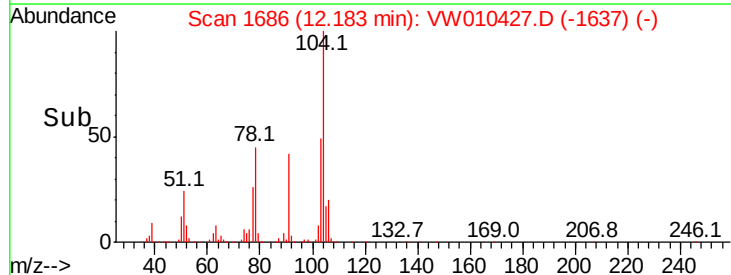
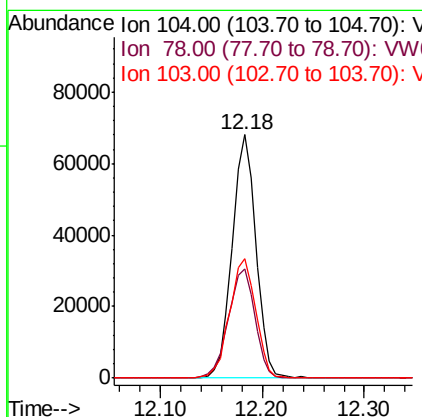
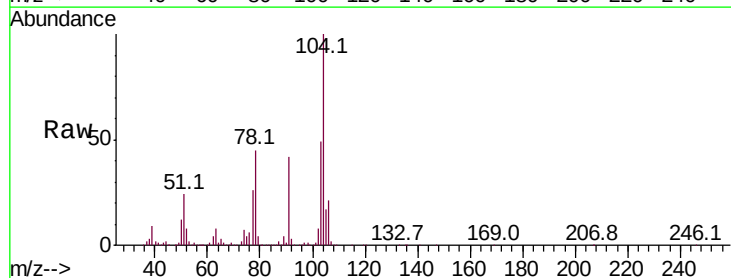
Manual Integrations
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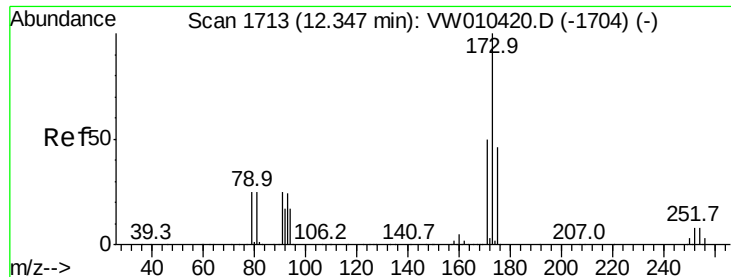
MMDadoda
5/20/2019 12:15:19 PM



#70
Styrene
Concen: 4.407 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.1	39.4	59.0
103	54.1	43.4	65.0





#71

Bromoform

Concen: 4.479 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

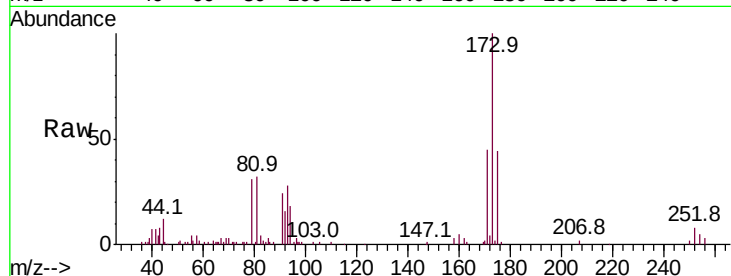
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.3	23.8	71.2
254	0.0	0.2	0.2

Manual Integrations
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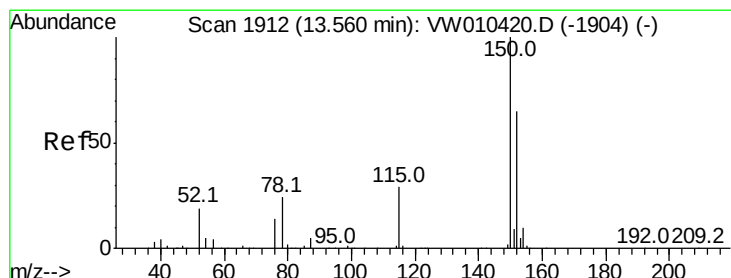
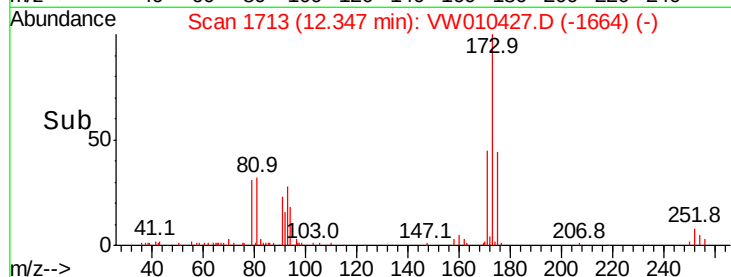
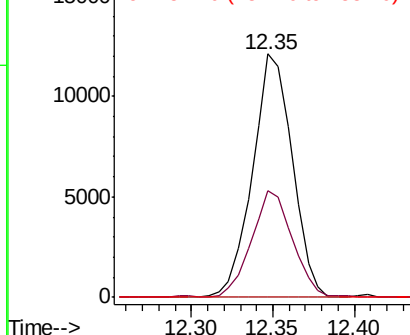


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

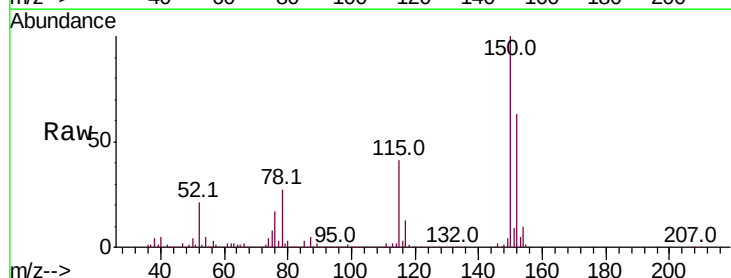
RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.8	30.0	90.1
150	159.2	0.0	350.2

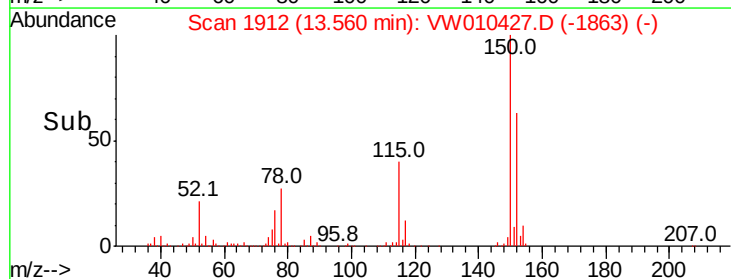
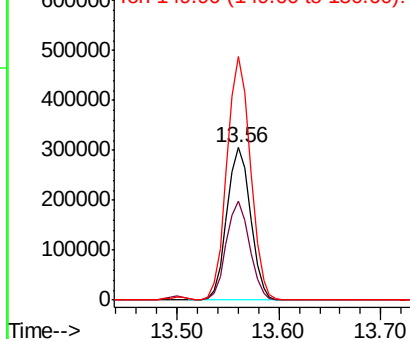


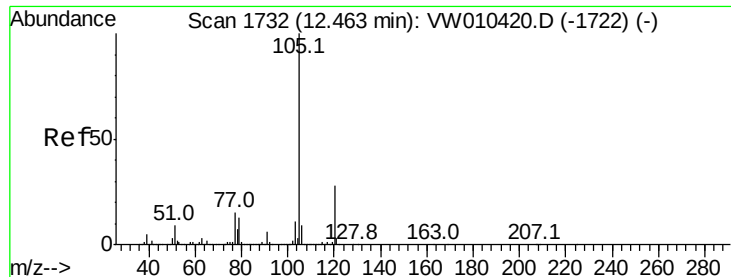
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.520 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 170934

Ion Ratio Lower Upper

105 100

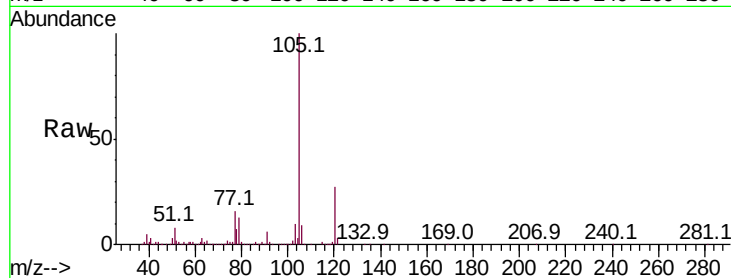
120 27.9 13.9 41.6

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

120000

100000

80000

60000

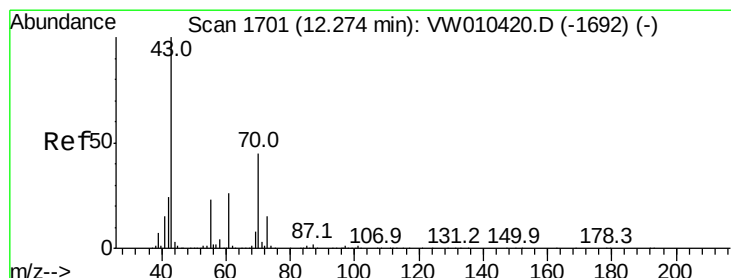
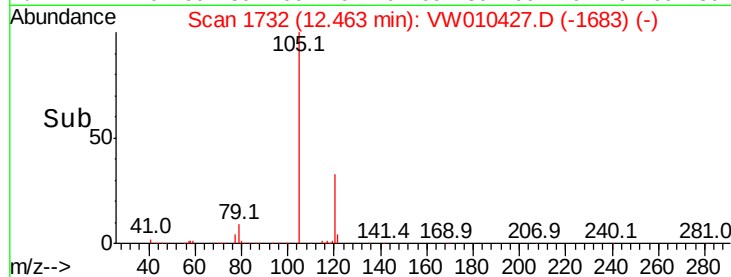
40000

20000

0

12.40 12.45 12.50 12.55

Time-->



#74

N-ethyl acetate

Concen: 4.425 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion: 43 Resp: 42880

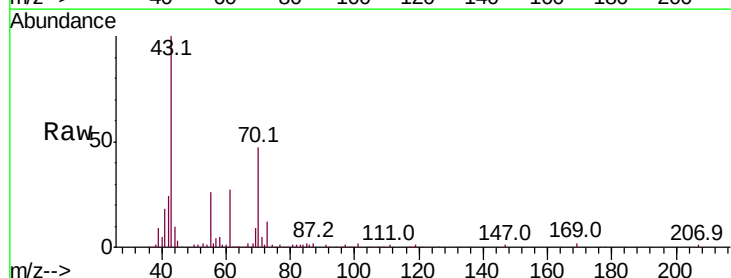
Ion Ratio Lower Upper

43 100

70 48.3 36.4 54.6

55 26.0 19.0 28.6

61 28.1 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

40000

30000

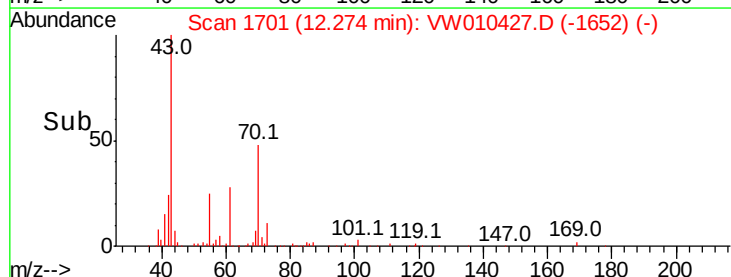
20000

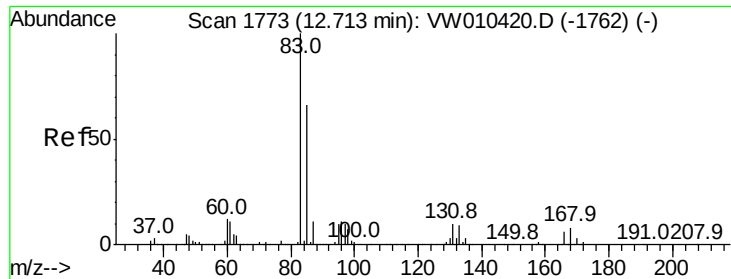
10000

0

12.20 12.25 12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 4.771 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

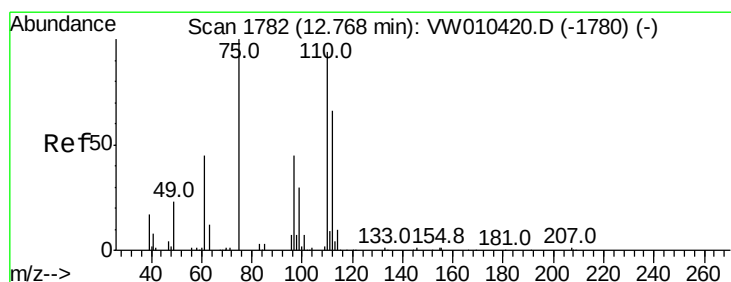
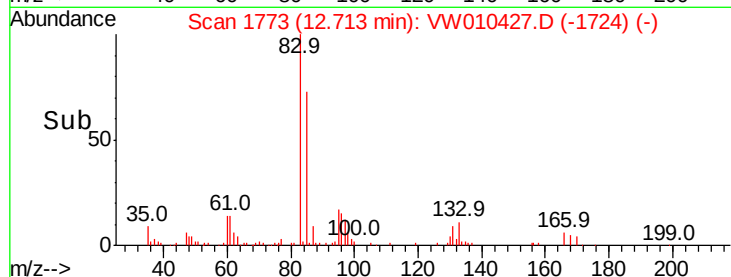
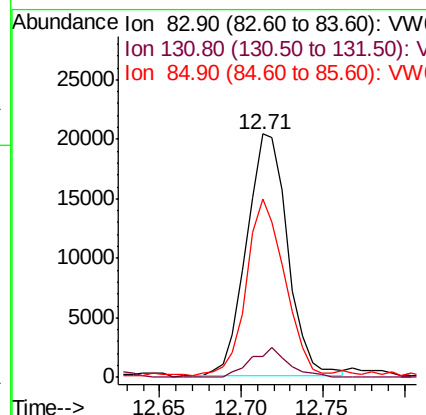
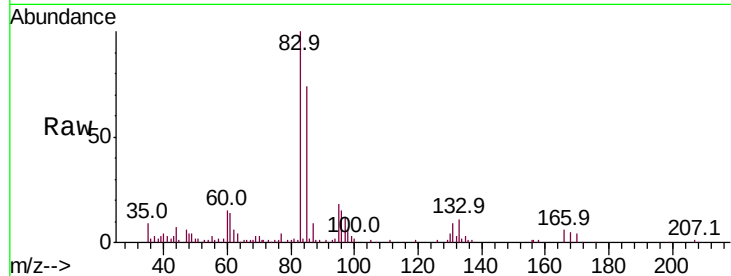
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	35730
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.5	16.4
85	68.1	32.3	96.9

Manual Integrations
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5/20/2019 12:15:19 PM



#76

1,2,3-Trichloropropane

Concen: 5.024 ug/l m

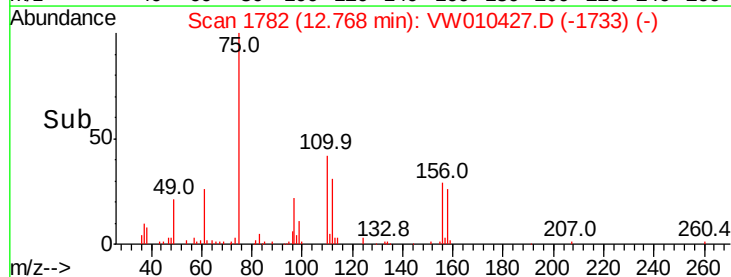
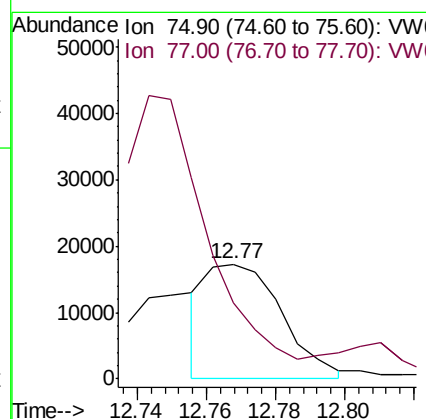
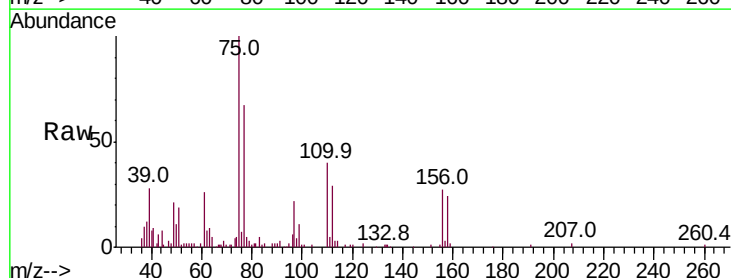
RT: 12.77 min Scan# 1782

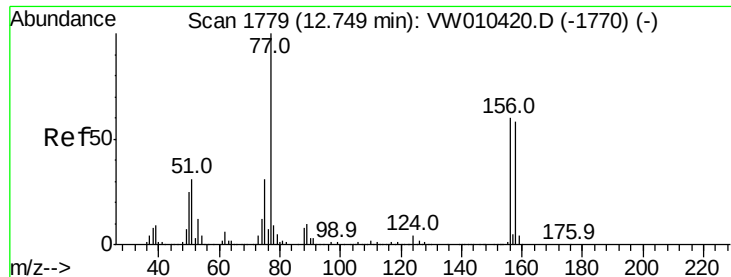
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	75	Resp:	26312
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





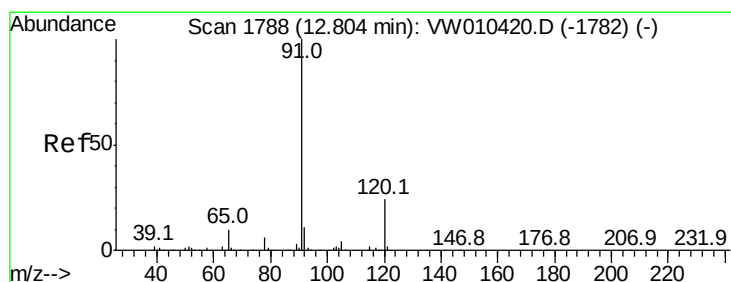
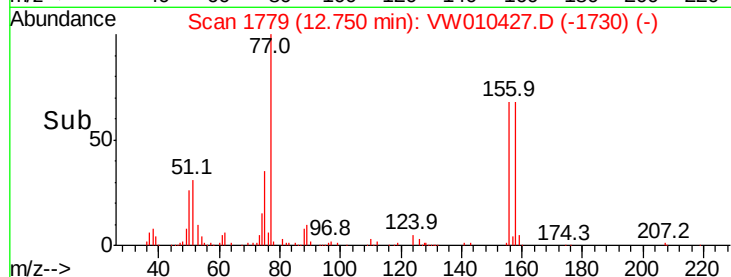
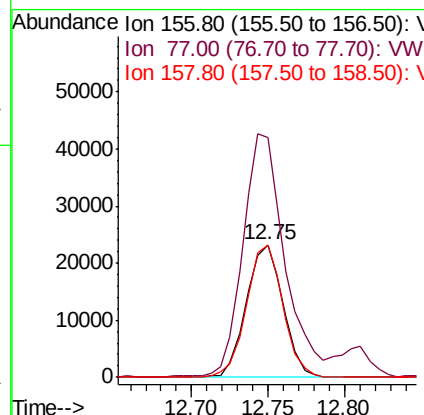
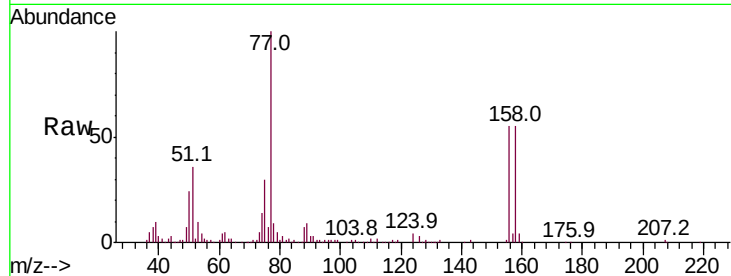
#77
Bromobenzene
Concen: 4.525 ug/l
RT: 12.75 min Scan# 1779
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	209.9	95.7	286.9
158	98.8	48.9	146.7

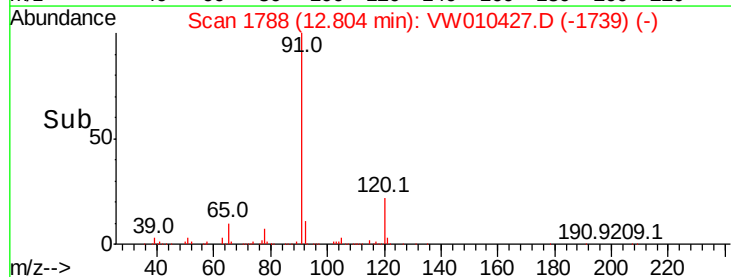
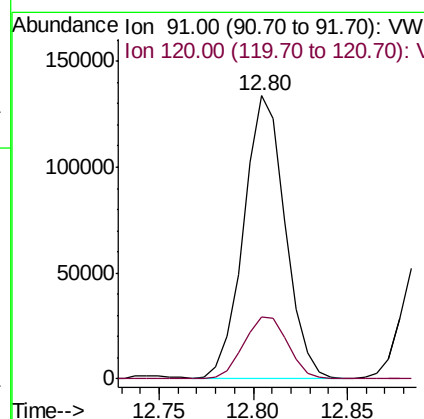
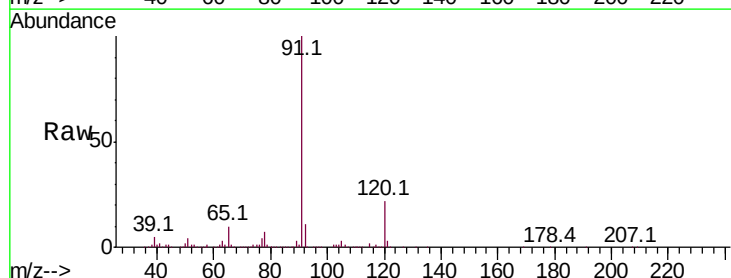
Manual Integrations
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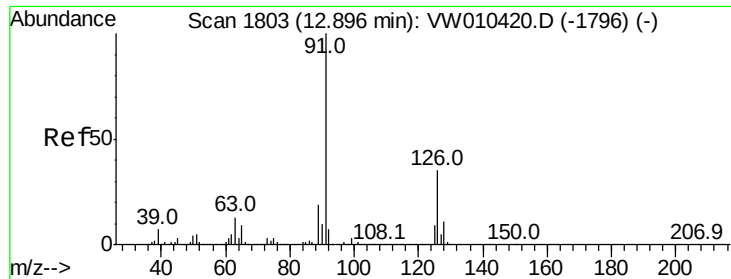
MMDadoda
5/20/2019 12:15:19 PM



#78
n-propylbenzene
Concen: 4.629 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	12.0	36.1





#79

2-Chlorotoluene

Concen: 4.719 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 120886

Ion Ratio Lower Upper

91 100

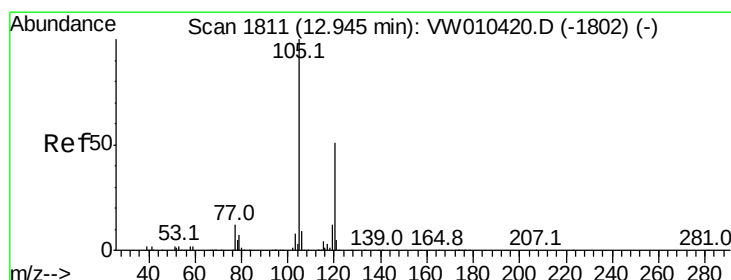
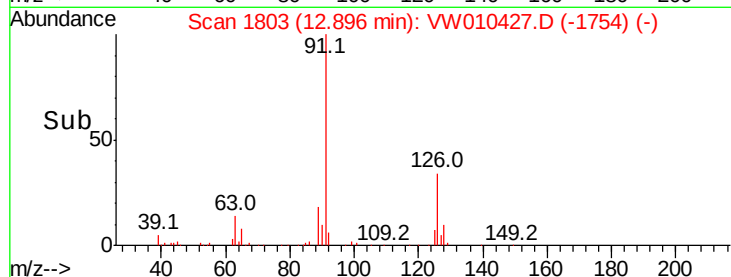
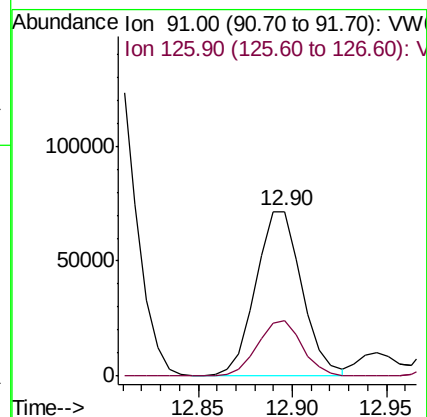
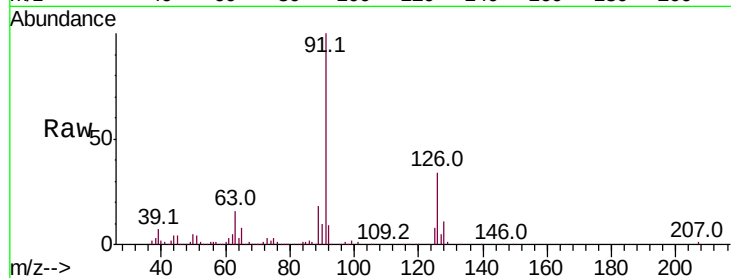
126 33.0 17.3 52.0

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 4.653 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW010427.D

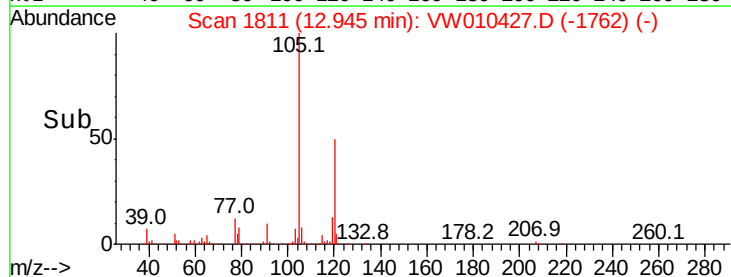
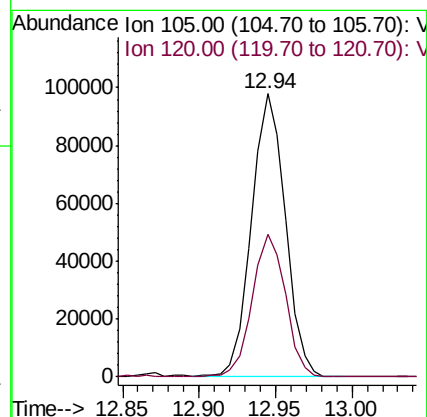
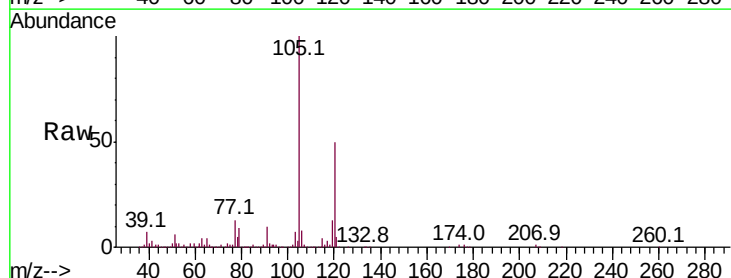
Acq: 17 May 2019 23:39

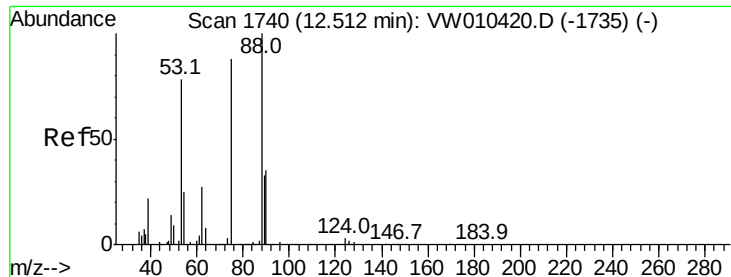
Tgt Ion:105 Resp: 149767

Ion Ratio Lower Upper

105 100

120 49.9 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 4.138 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

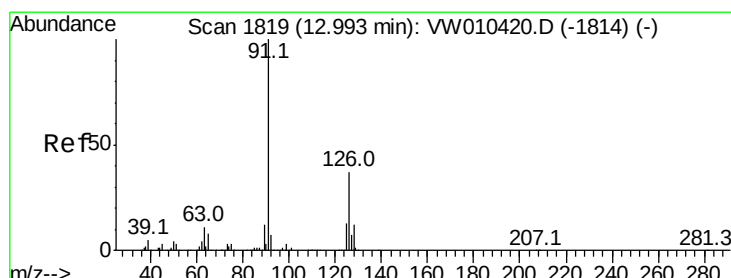
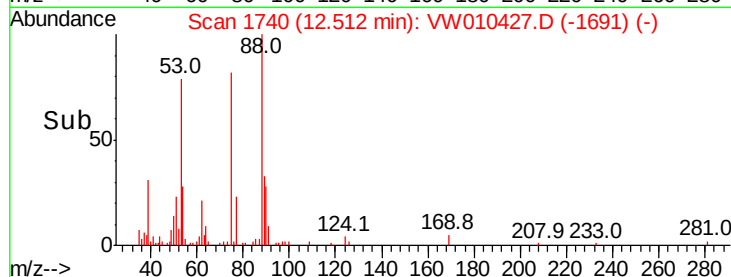
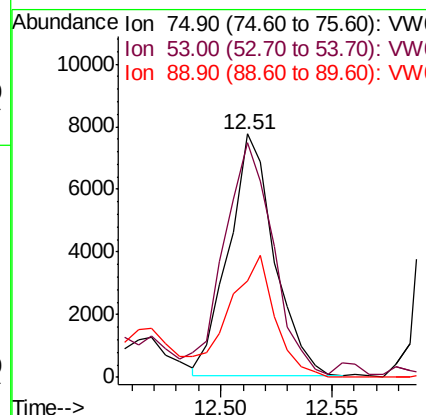
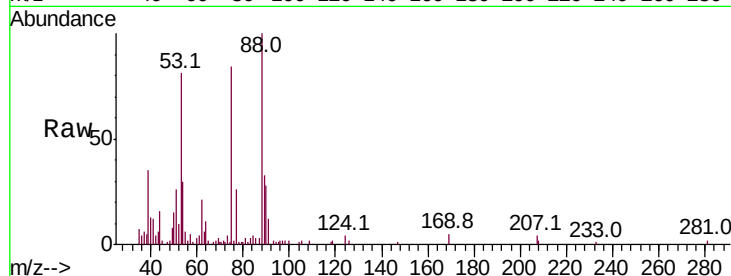
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	104.5	70.7	106.1
89	50.3	38.6	58.0

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#82

4-Chlorotoluene

Concen: 4.813 ug/l

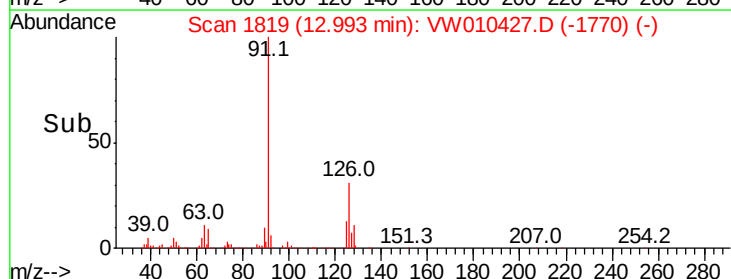
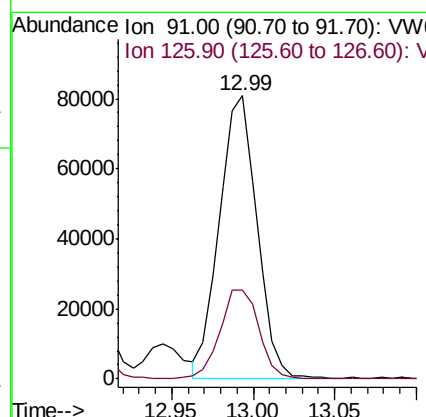
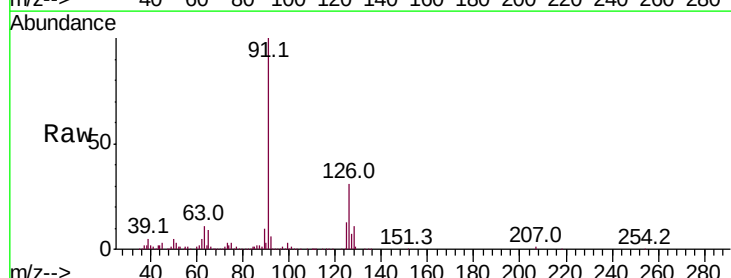
RT: 12.99 min Scan# 1819

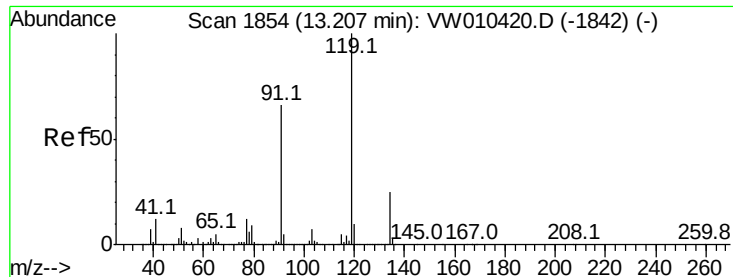
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.9	17.4	52.2





#83

tert-Butylbenzene

Concen: 4.760 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

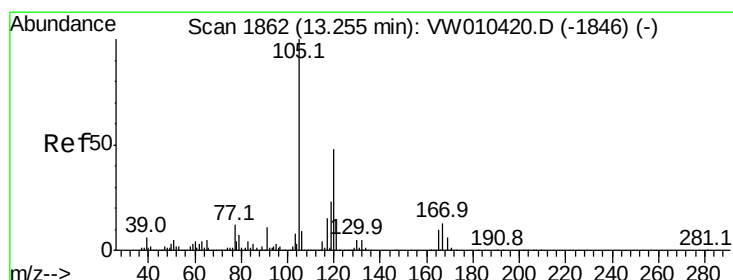
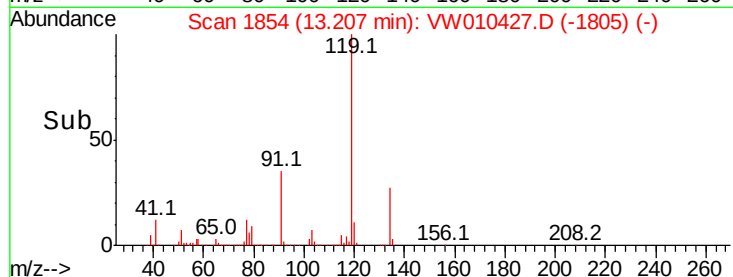
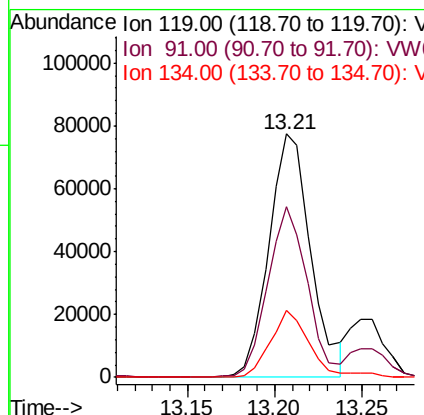
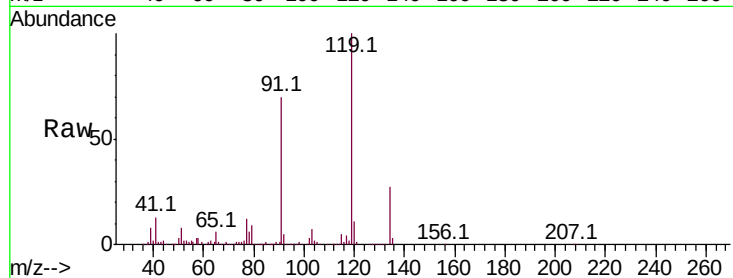
ClientSampleID :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	119	Resp:	129573
Ion Ratio	Lower	Upper	
119	100		
91	66.2	33.5	100.5
134	25.9	13.8	41.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 4.726 ug/l

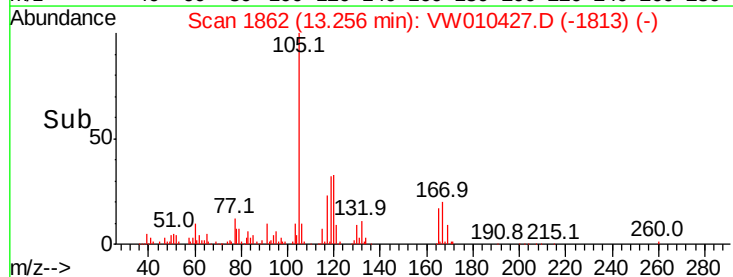
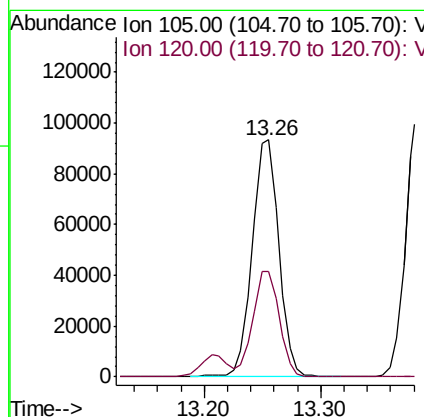
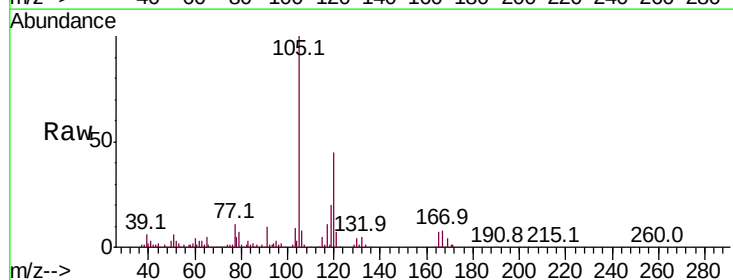
RT: 13.26 min Scan# 1862

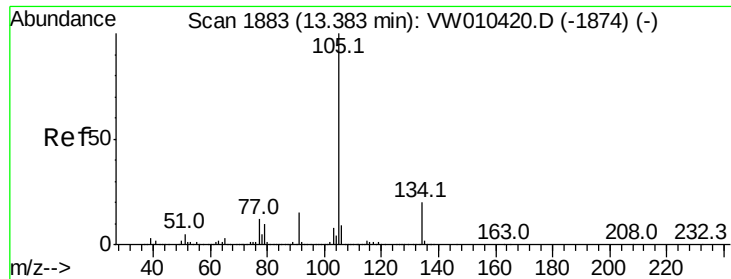
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion:	105	Resp:	149653
Ion Ratio	Lower	Upper	
105	100		
120	44.3	23.4	70.0





#85

sec-Butylbenzene

Concen: 4.662 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 178707

Ion Ratio Lower Upper

105 100

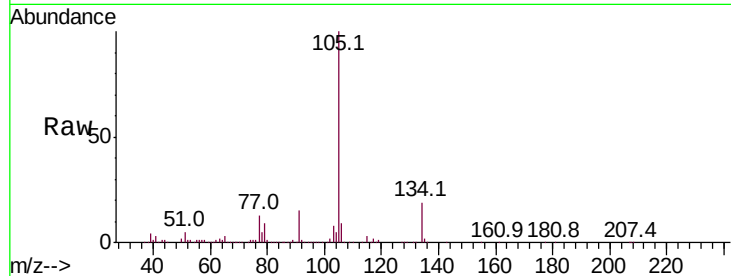
134 19.9 10.4 31.4

Manual Integrations

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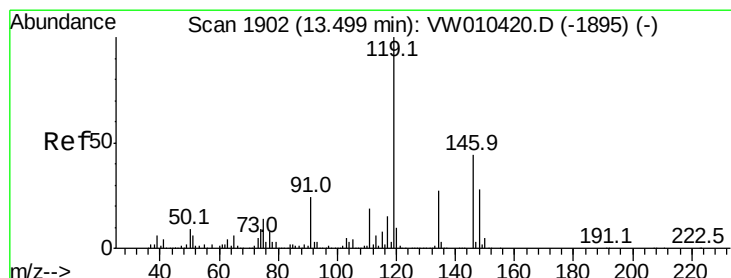
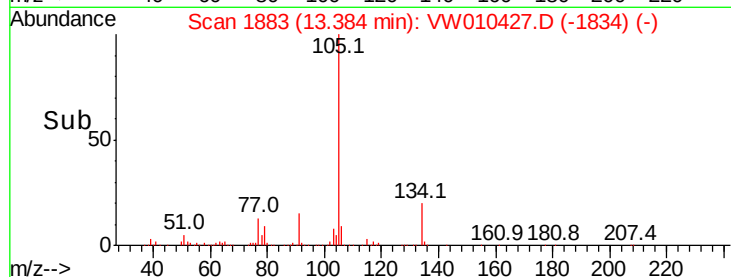
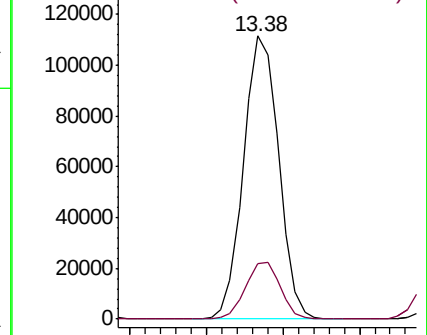
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.469 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

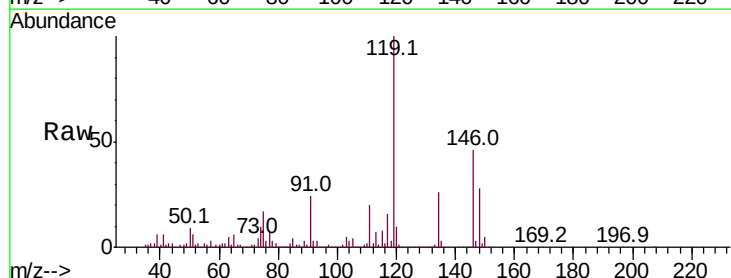
Tgt Ion:119 Resp: 154744

Ion Ratio Lower Upper

119 100

134 27.5 13.7 41.0

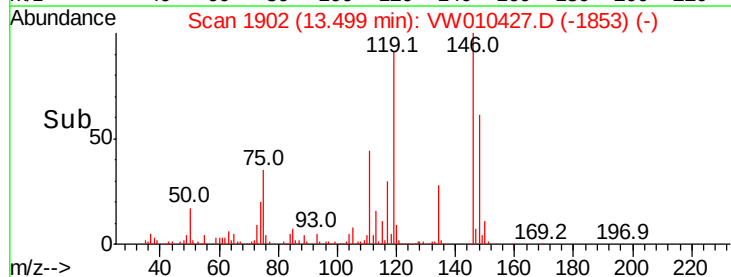
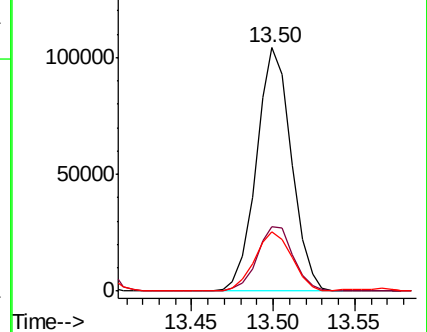
91 25.8 12.2 36.4

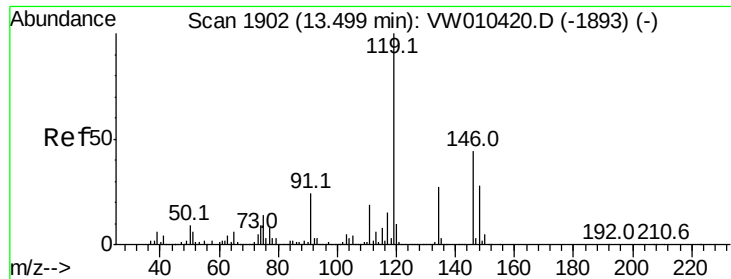


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 4.787 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

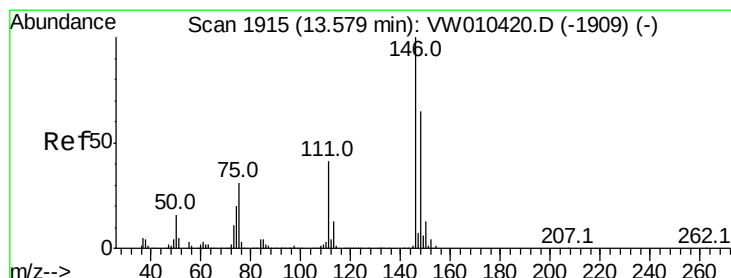
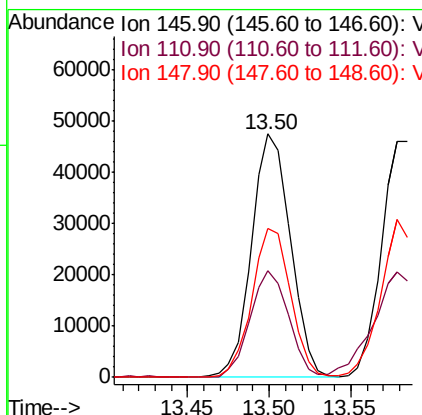
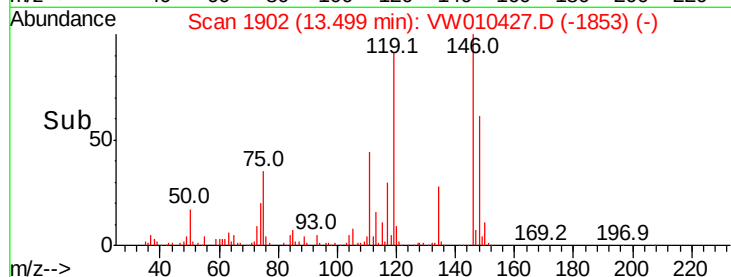
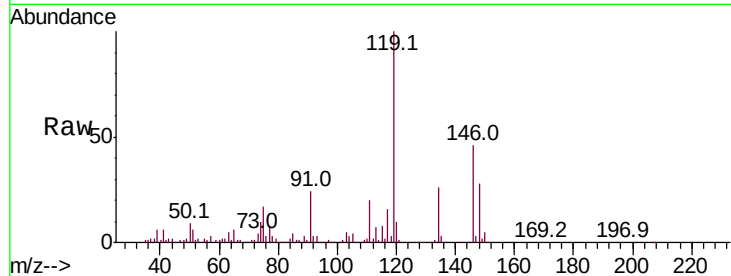
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.8	62.4
148	60.8	31.8	95.4

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#88

1,4-Dichlorobenzene

Concen: 4.676 ug/l

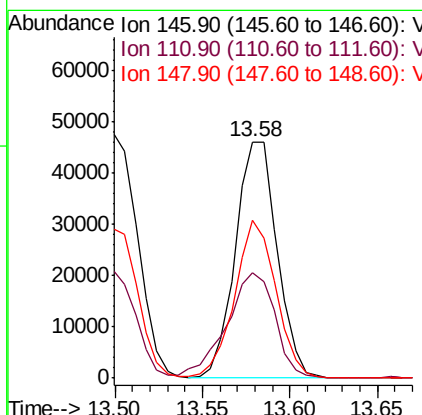
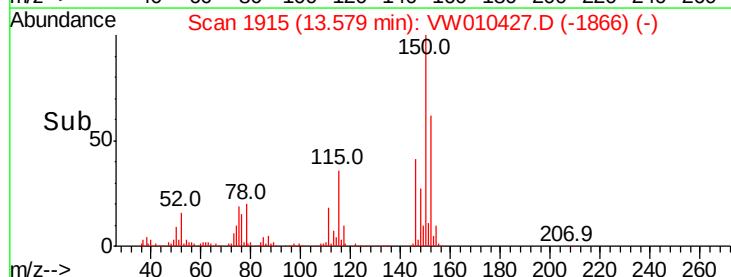
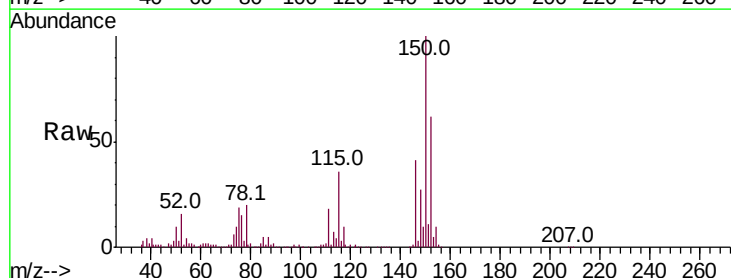
RT: 13.58 min Scan# 1915

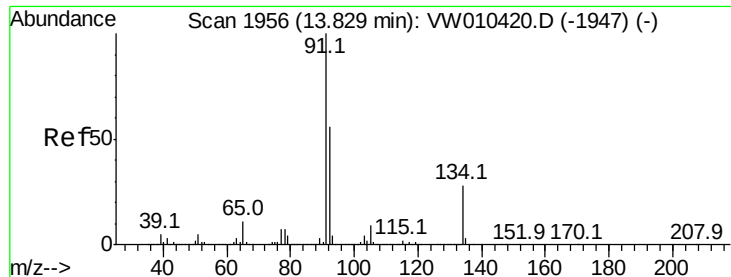
Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.0	20.4	61.3
148	65.9	32.3	96.9





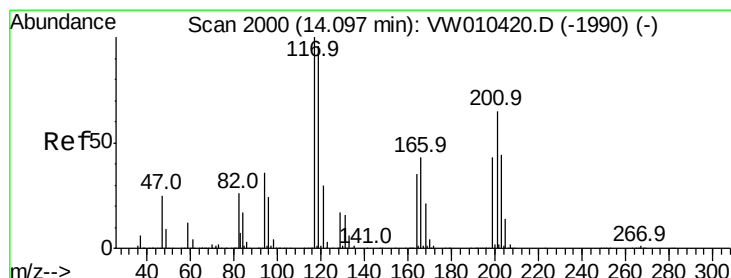
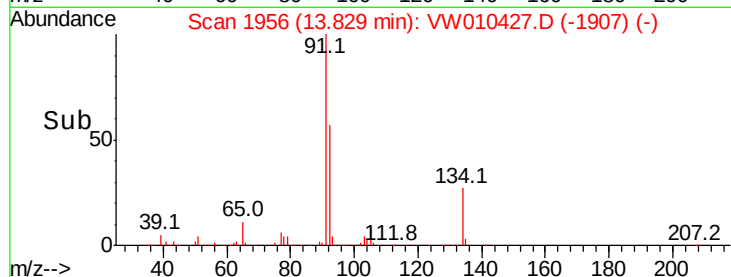
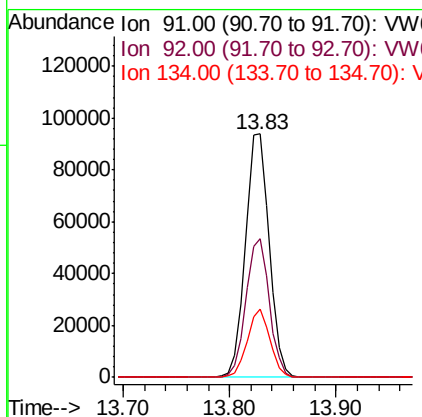
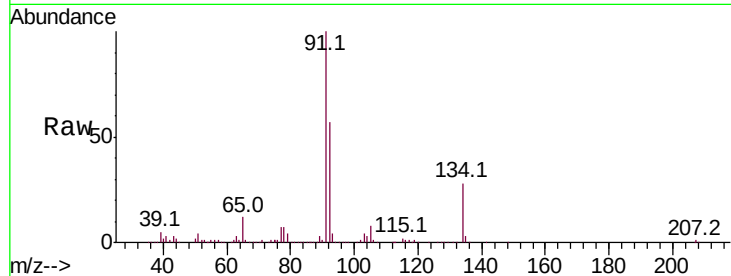
#89
n-Butylbenzene
Concen: 4.468 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.1	27.7	83.0
134	26.8	13.8	41.3

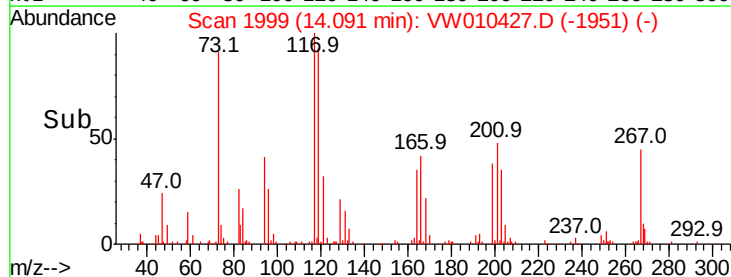
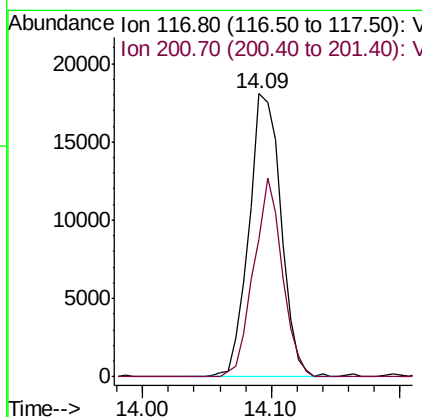
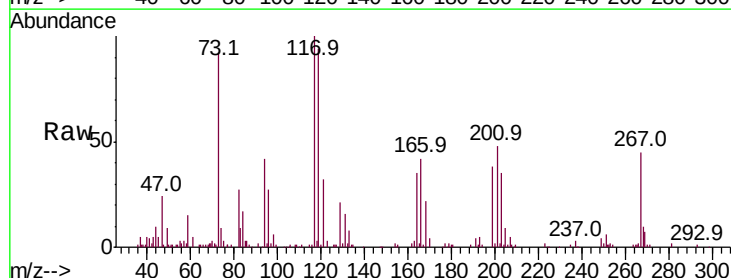
Manual Integrations
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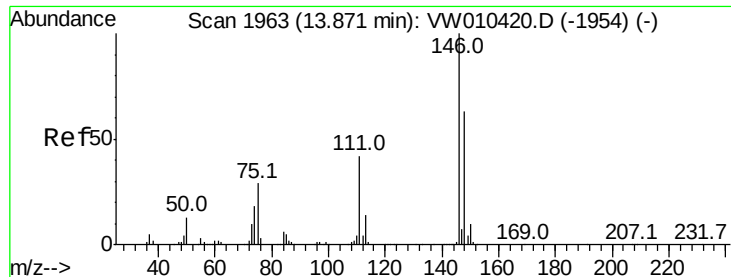
MMDadoda
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#90
Hexachloroethane
Concen: 4.447 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	62.6	33.8	101.4





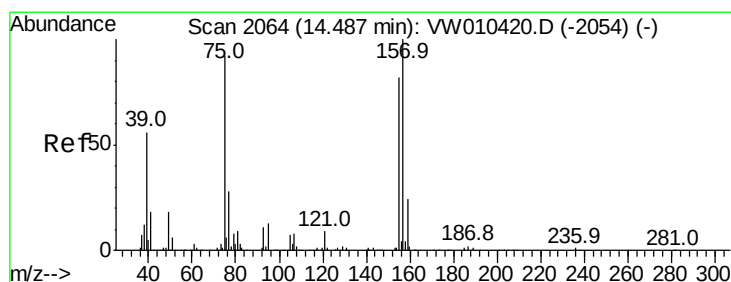
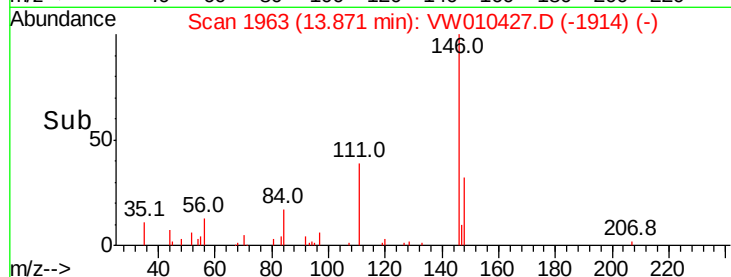
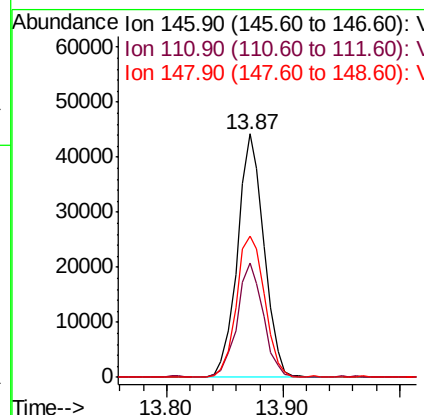
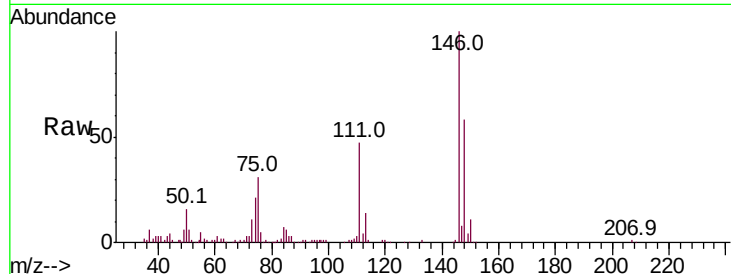
#91
 1,2-Dichlorobenzene
 Concen: 4.671 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.3	21.3	63.7
148	61.9	31.6	95.0

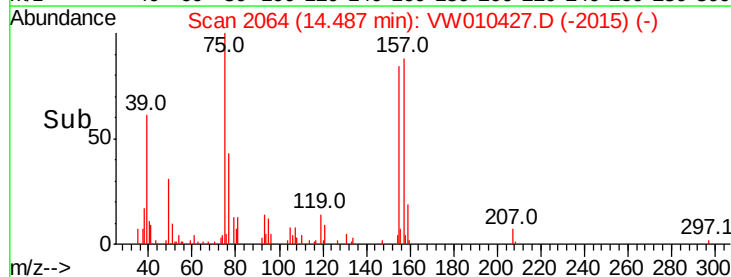
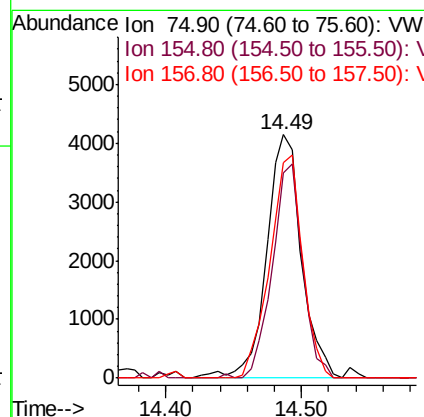
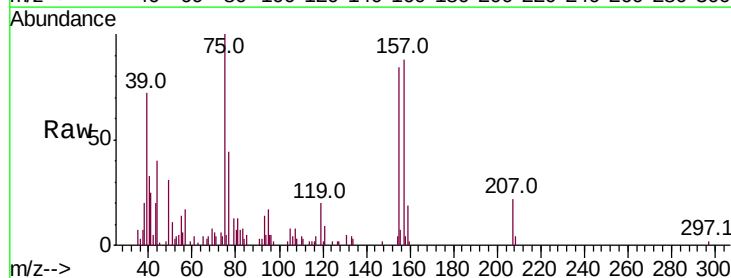
Manual Integrations
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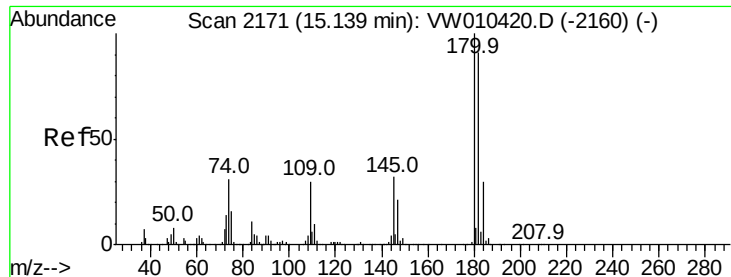
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.343 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.4	43.5	130.7
157	86.0	54.8	164.4





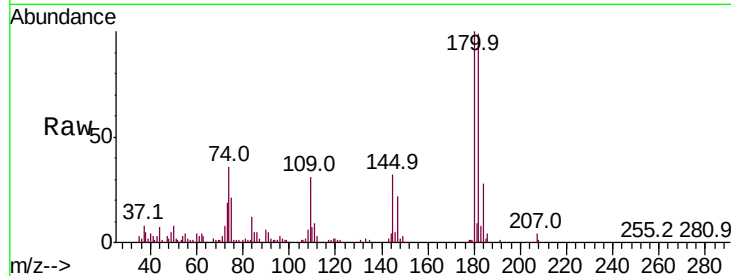
#93
 1,2,4-Trichlorobenzene
 Concen: 4.415 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

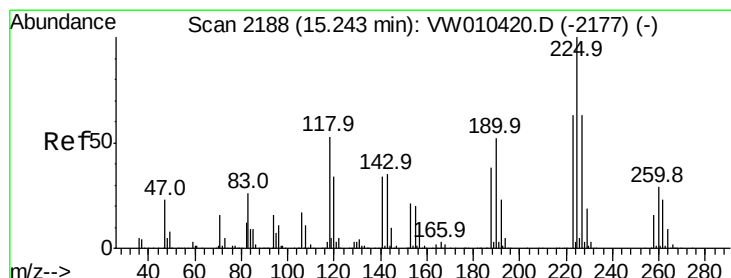
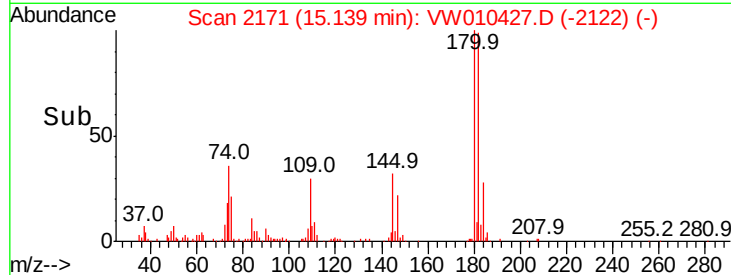
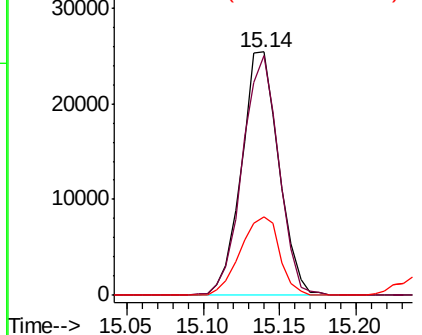
Tot Ion	Ratio	Resp	Lower	Upper
180	100	43049		
182	96.1	47.0	141.2	
145	34.2	16.6	49.7	

Manual Integrations
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 5/20/2019 12:15:19 PM

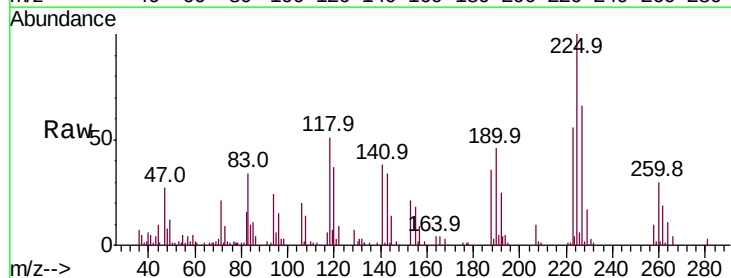


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

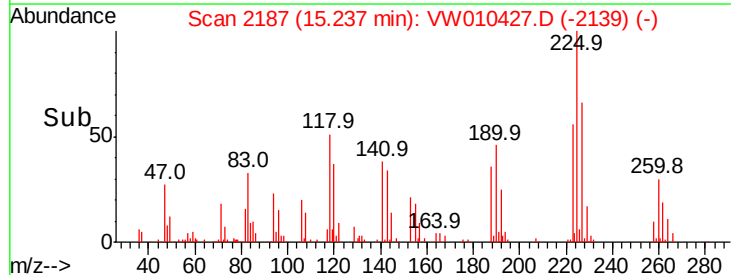
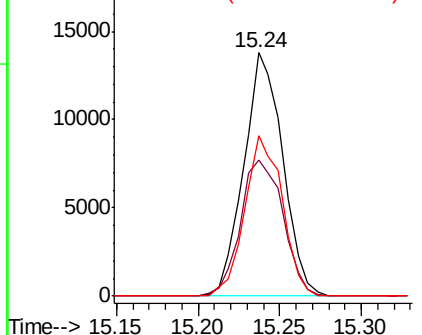


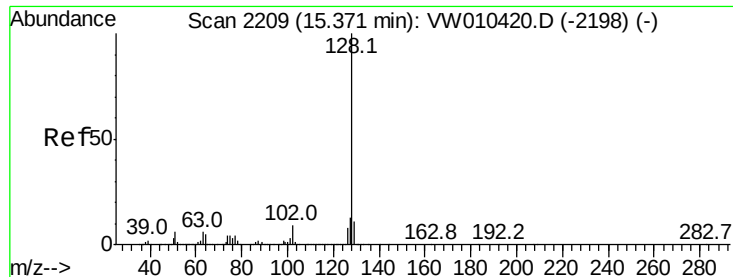
#94
 Hexachlorobutadiene
 Concen: 4.408 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	22950		
223	60.9	32.0	96.2	
227	63.2	31.4	94.0	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





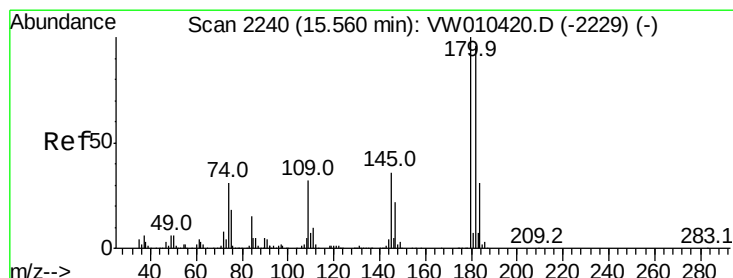
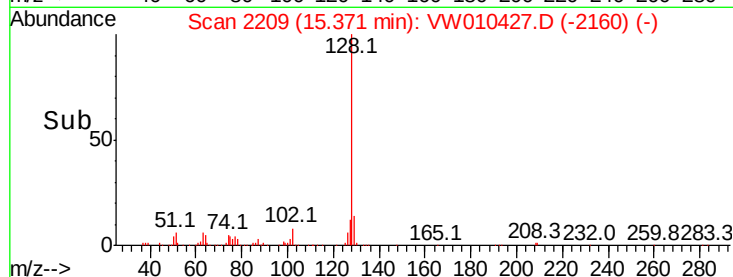
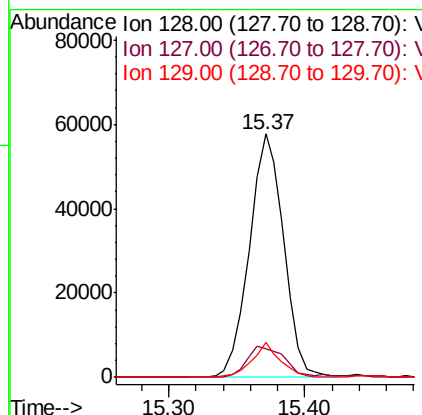
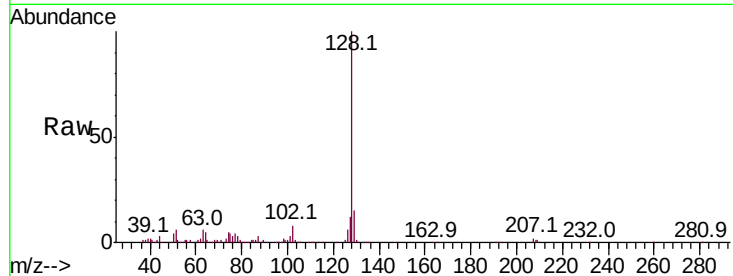
#95
Naphthalene
Concen: 4.623 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
128	100	101911		
127	14.4	10.5	15.7	
129	11.6	8.6	13.0	

Manual Integrations
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5/20/2019 12:15:19 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.483 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	38540		
182	99.2	47.6	142.9	
145	38.2	17.8	53.5	

