

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050620\
 Data File : VD065699.D
 Acq On : 06 May 2020 16:05
 Operator : VA/SY
 Sample : VSTDIC100
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 06 16:24:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050620S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 15:58:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	456577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	713295	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	633769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	305578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	461420	100.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.24%	
35) Dibromofluoromethane	7.92	113	446371	99.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	198.28%	
50) Toluene-d8	10.34	98	1722572	100.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	200.10%	
62) 4-Bromofluorobenzene	12.64	95	594776	96.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	192.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	350522	96.124	ug/l	100
3) Chloromethane	2.21	50	443902	96.944	ug/l	99
4) Vinyl Chloride	2.35	62	456850	99.208	ug/l	98
5) Bromomethane	2.76	94	282932	95.910	ug/l	99
6) Chloroethane	2.91	64	290103	97.069	ug/l	93
7) Trichlorofluoromethane	3.27	101	712550	95.651	ug/l	100
8) Diethyl Ether	3.71	74	222525	94.684	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.10	101	427020	94.145	ug/l	99
10) Methyl Iodide	4.30	142	517264	129.376	ug/l	99
11) Tert butyl alcohol	5.23	59	165286	364.563	ug/l	96
12) 1,1-Dichloroethene	4.07	96	421266	94.500	ug/l	96
13) Acrolein	3.92	56	179869	460.100	ug/l	98
14) Allyl chloride	4.71	41	851211	96.107	ug/l	99
15) Acrylonitrile	5.43	53	520394	468.753	ug/l	99
16) Acetone	4.16	43	521048	521.492	ug/l	98
17) Carbon Disulfide	4.41	76	1412051	97.006	ug/l	98
18) Methyl Acetate	4.72	43	231602	91.716	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	1050368	97.512	ug/l	98
20) Methylene Chloride	4.97	84	462760	90.136	ug/l	99
21) trans-1,2-Dichloroethene	5.47	96	481432	94.053	ug/l	95
22) Diisopropyl ether	6.37	45	1618520	98.738	ug/l	99
23) Vinyl Acetate	6.31	43	4918781	498.389	ug/l	100
24) 1,1-Dichloroethane	6.27	63	869030	96.510	ug/l	99
25) 2-Butanone	7.21	43	733292	493.427	ug/l	98
26) 2,2-Dichloropropane	7.21	77	767603	93.818	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	536184	97.458	ug/l	100
28) Bromochloromethane	7.55	49	399381	109.616	ug/l	100
29) Tetrahydrofuran	7.57	42	458748	476.857	ug/l	98
30) Chloroform	7.71	83	842554	97.371	ug/l	99
31) Cyclohexane	7.98	56	834522	86.713	ug/l	98
32) 1,1,1-Trichloroethane	7.91	97	760815	94.193	ug/l	99
36) 1,1-Dichloropropene	8.11	75	679082	93.119	ug/l	98
37) Ethyl Acetate	7.30	43	328990	92.414	ug/l	99
38) Carbon Tetrachloride	8.10	117	681260	94.700	ug/l	98

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Quant Time: May 06 16:24:14 2020
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 Quant Title : SW846 8260
 QLast Update : Wed May 06 15:58:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	856208	93.768	ug/l	96
40) Benzene	8.36	78	1904131	96.464	ug/l	99
41) Methacrylonitrile	7.56	41	448441	161.367	ug/l #	20
42) 1,2-Dichloroethane	8.43	62	548566	96.416	ug/l	100
43) Isopropyl Acetate	8.46	43	662491	93.935	ug/l	99
44) Trichloroethene	9.11	130	529035	97.578	ug/l	95
45) 1,2-Dichloropropane	9.39	63	492442	96.447	ug/l	97
46) Dibromomethane	9.48	93	247019	96.242	ug/l	99
47) Bromodichloromethane	9.67	83	663289	96.917	ug/l	98
48) Methyl methacrylate	9.46	41	335874	95.753	ug/l	100
49) 1,4-Dioxane	9.47	88	60181	1892.746	ug/l	99
51) 4-Methyl-2-Pentanone	10.23	43	1607390	473.546	ug/l	100
52) Toluene	10.41	92	1205386	96.705	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	680483	98.588	ug/l	99
54) cis-1,3-Dichloropropene	10.10	75	796373	97.672	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	335635	97.361	ug/l	97
56) Ethyl methacrylate	10.67	69	483545	96.801	ug/l	99
57) 1,3-Dichloropropane	10.95	76	603583	97.403	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.95	63	1168724	520.036	ug/l	100
59) 2-Hexanone	10.99	43	1116128	477.795	ug/l	100
60) Dibromochloromethane	11.14	129	449940	97.011	ug/l	100
61) 1,2-Dibromoethane	11.25	107	338593	97.489	ug/l	100
64) Tetrachloroethene	10.88	164	432718	93.000	ug/l	99
65) Chlorobenzene	11.67	112	1258199	96.751	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	468303	96.555	ug/l	99
67) Ethyl Benzene	11.75	91	2328963	95.699	ug/l	100
68) m/p-Xylenes	11.86	106	1731766	190.218	ug/l	100
69) o-Xylene	12.18	106	813652	96.139	ug/l	100
70) Styrene	12.20	104	1408884	97.087	ug/l	99
71) Bromoform	12.37	173	265497	96.964	ug/l #	99
73) Isopropylbenzene	12.48	105	2208920	92.655	ug/l	100
74) N-amyl acetate	12.30	43	631012	91.965	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	371741	92.300	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	514505	94.254	ug/l #	100
77) Bromobenzene	12.77	156	512387	94.081	ug/l	99
78) n-propylbenzene	12.83	91	2637576	94.327	ug/l	99
79) 2-Chlorotoluene	12.91	91	1491562	94.657	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	1844045	94.658	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.54	75	138624	91.689	ug/l	99
82) 4-Chlorotoluene	13.01	91	1538626	92.825	ug/l	99
83) tert-Butylbenzene	13.23	119	1553836	93.447	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	1825127	93.846	ug/l	99
85) sec-Butylbenzene	13.41	105	2166373	92.780	ug/l	100
86) p-Isopropyltoluene	13.53	119	1989999	93.603	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	952291	92.576	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	946789	93.409	ug/l	99
89) n-Butylbenzene	13.85	91	1954955	95.265	ug/l	99
90) Hexachloroethane	14.12	117	401480	95.520	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	839333	95.136	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	63616	94.988	ug/l	96

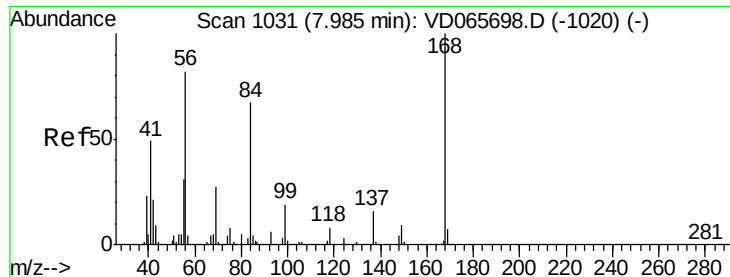
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD050620\
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Quant Title : SW846 8260
QLast Update : Wed May 06 15:58:10 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	623894	93.615	ug/l	98
94) Hexachlorobutadiene	15.28	225	359434	93.641	ug/l	99
95) Naphthalene	15.41	128	1102399	94.150	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	538961	95.660	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

Instrument :

MSVOA_D

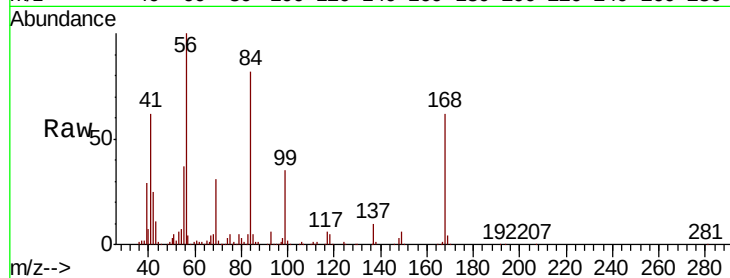
ClientSampleId :

Tot Ion:168 Resp: 456577

Ion Ratio Lower Upper

168 100

99 55.9 44.2 66.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

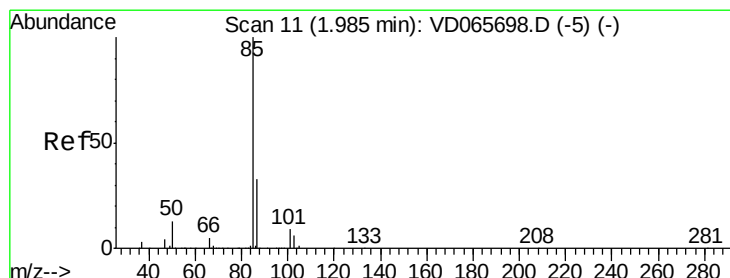
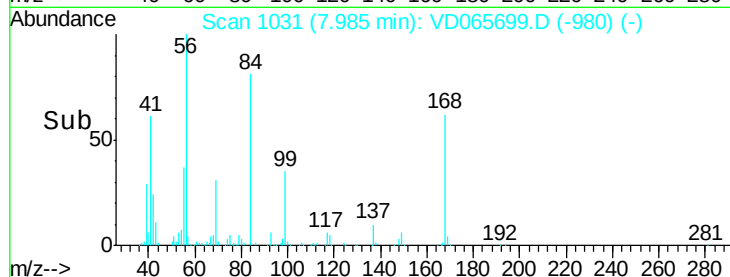
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 96.124 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065699.D

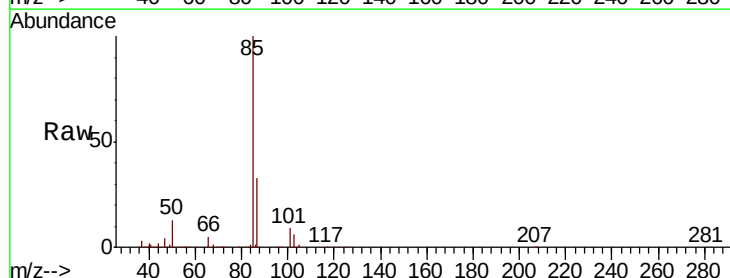
Acq: 06 May 2020 16:05

Tgt Ion: 85 Resp: 350522

Ion Ratio Lower Upper

85 100

87 32.9 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

300000

250000

200000

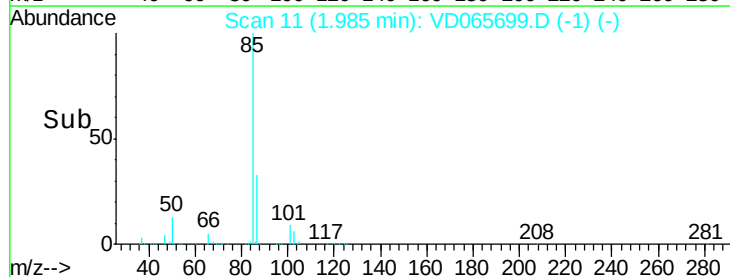
150000

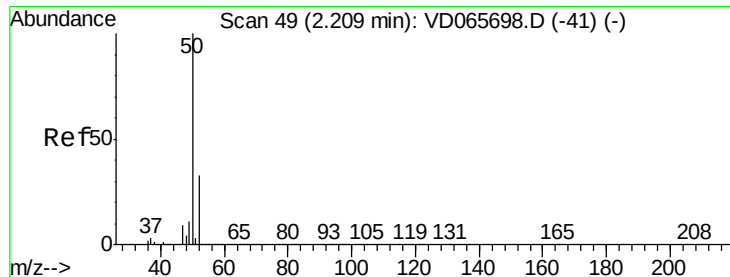
100000

50000

0

Time-->





#3

Chloromethane

Concen: 96.944 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

Instrument :

MSVOA_D

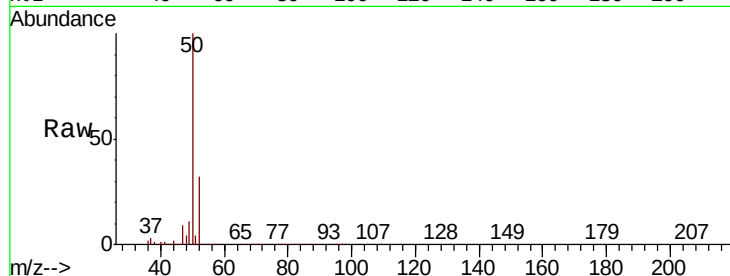
ClientSampleId :

Tot Ion: 50 Resp: 443902

Ion Ratio Lower Upper

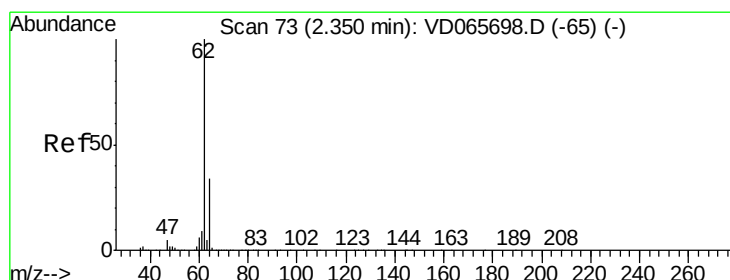
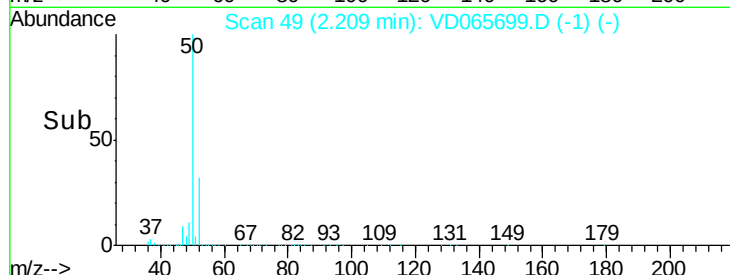
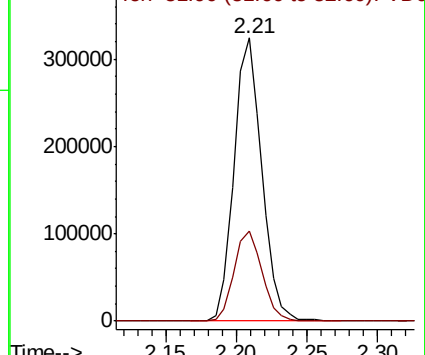
50 100

52 32.1 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 99.208 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065699.D

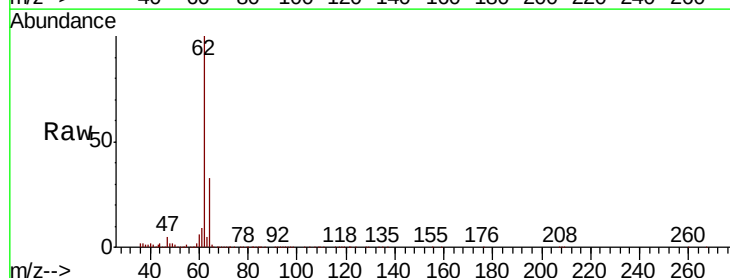
Acq: 06 May 2020 16:05

Tgt Ion: 62 Resp: 456850

Ion Ratio Lower Upper

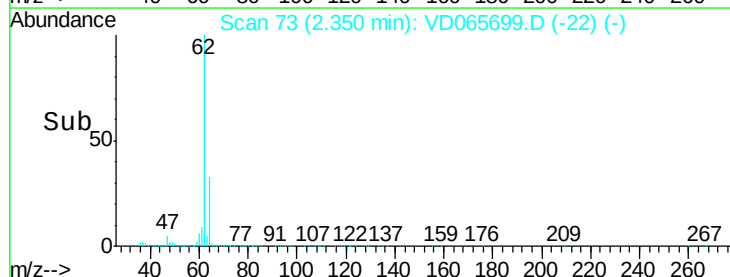
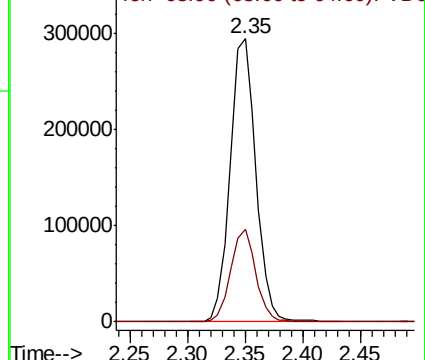
62 100

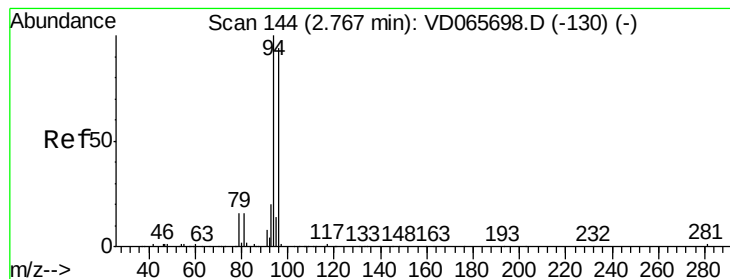
64 32.7 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 95.910 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

Instrument :

MSVOA_D

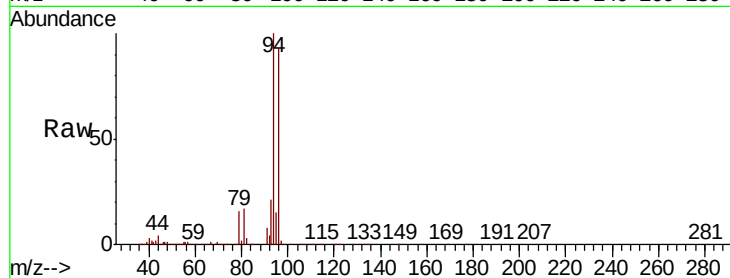
ClientSampled :

Tot Ion: 94 Resp: 282932

Ion Ratio Lower Upper

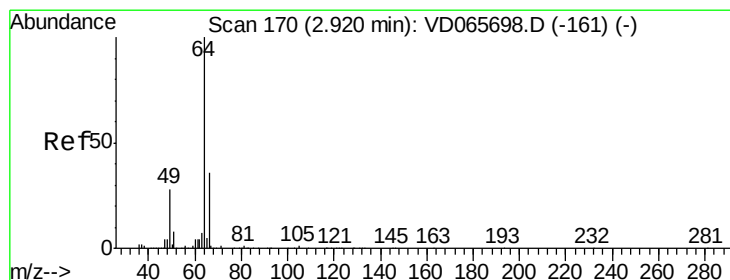
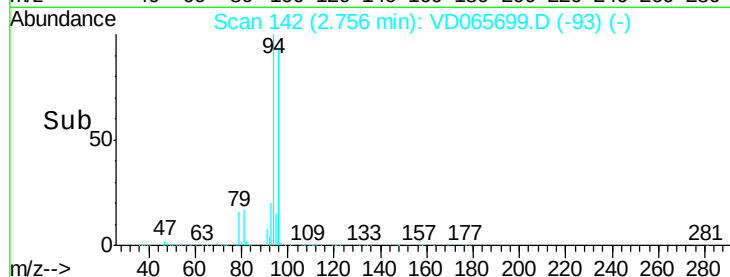
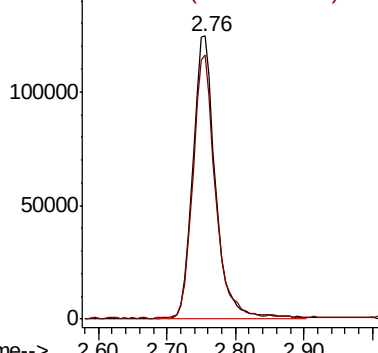
94 100

96 92.8 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 97.069 ug/l

RT: 2.91 min Scan# 169

Delta R.T. -0.01 min

Lab File: VD065699.D

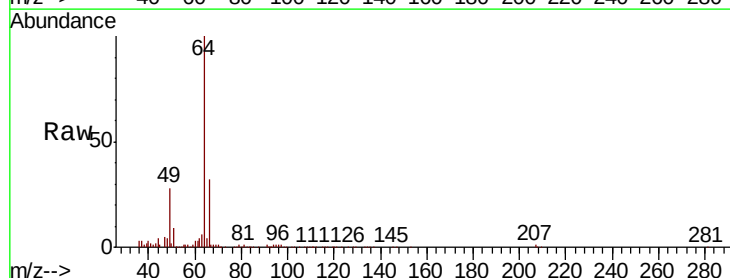
Acq: 06 May 2020 16:05

Tgt Ion: 64 Resp: 290103

Ion Ratio Lower Upper

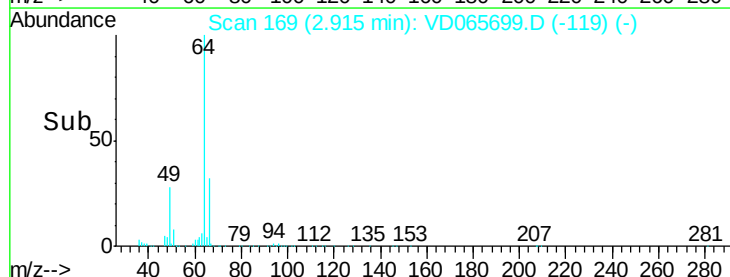
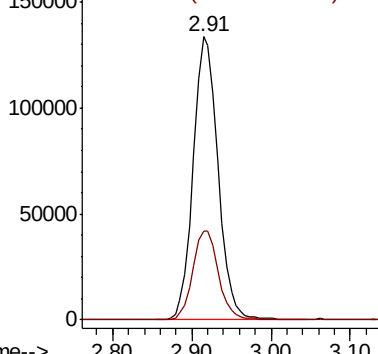
64 100

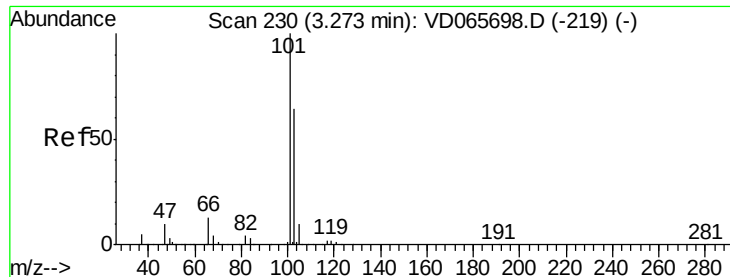
66 31.4 28.5 42.7



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



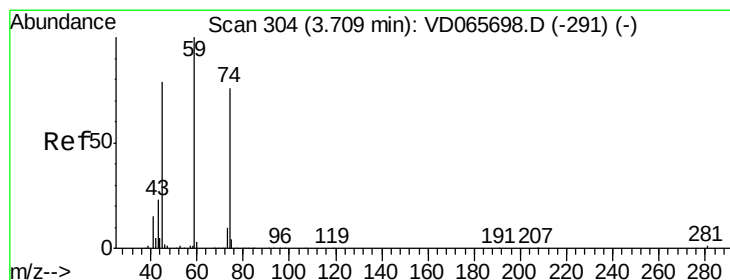
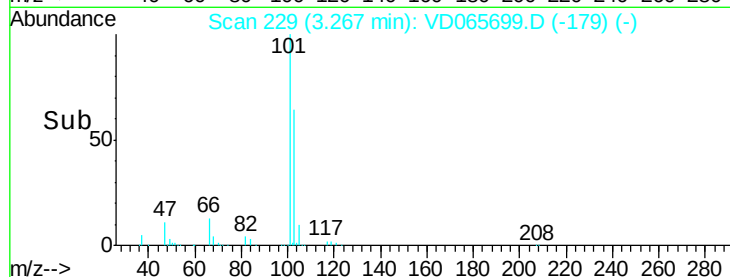
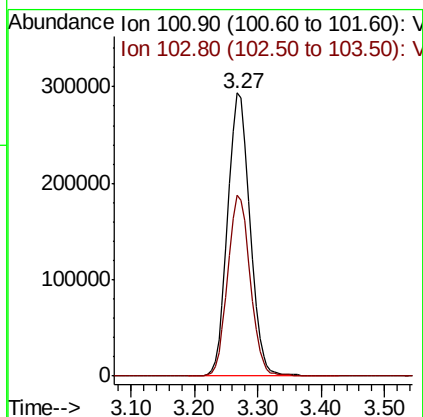
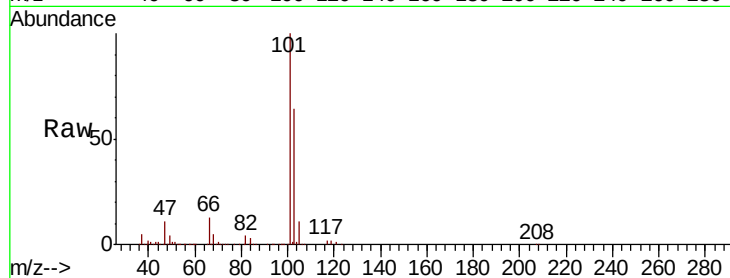


#7

Trichlorofluoromethane
Concen: 95.651 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.01 min
Lab File: VD065699.D
Acq: 06 May 2020 16:05

Instrument :
MSVOA_D
ClientSampleId :

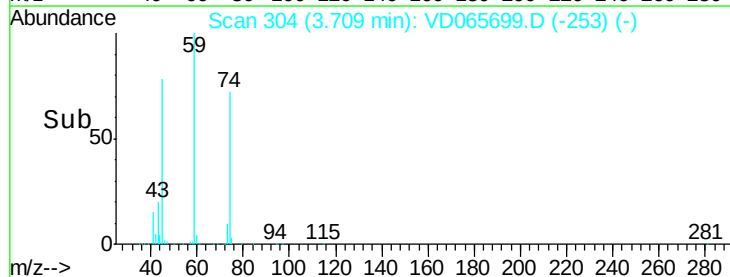
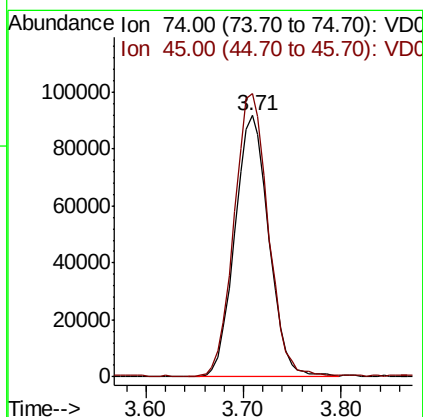
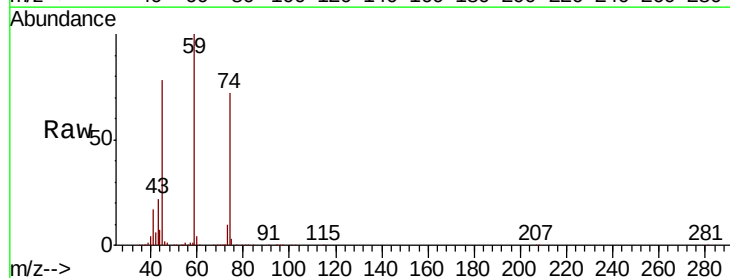
Tot Ion:101 Resp: 712550
Ion Ratio Lower Upper
101 100
103 63.8 51.1 76.7

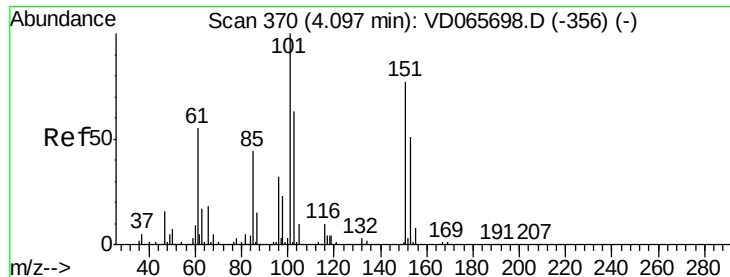


#8

Diethyl Ether
Concen: 94.684 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD065699.D
Acq: 06 May 2020 16:05

Tgt Ion: 74 Resp: 222525
Ion Ratio Lower Upper
74 100
45 108.2 55.0 165.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 94.145 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

Instrument :

MSVOA_D

ClientSampleId :

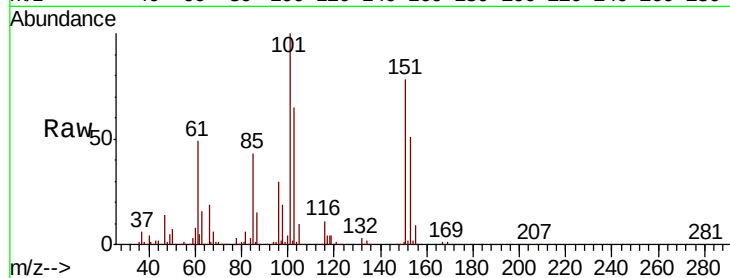
Tot Ion:101 Resp: 427020

Ion Ratio Lower Upper

101 100

85 44.5 34.4 51.6

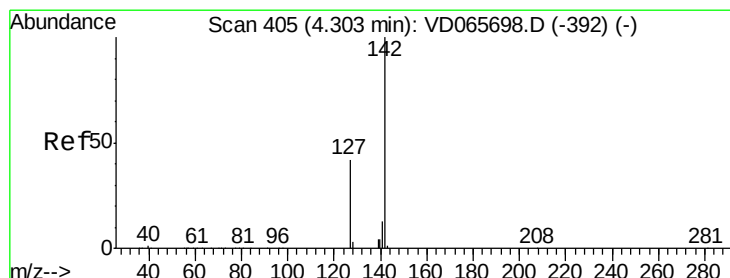
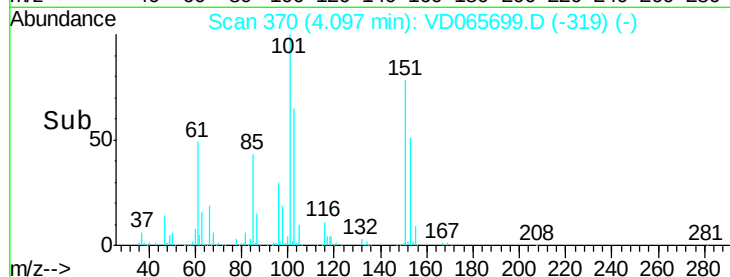
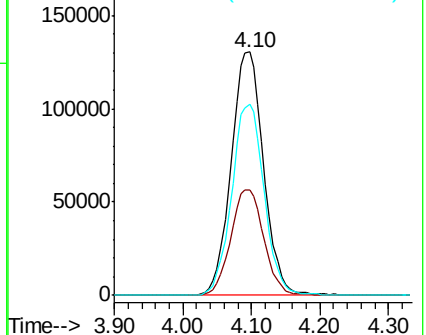
151 79.0 63.0 94.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 129.376 ug/l

RT: 4.30 min Scan# 404

Delta R.T. -0.01 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

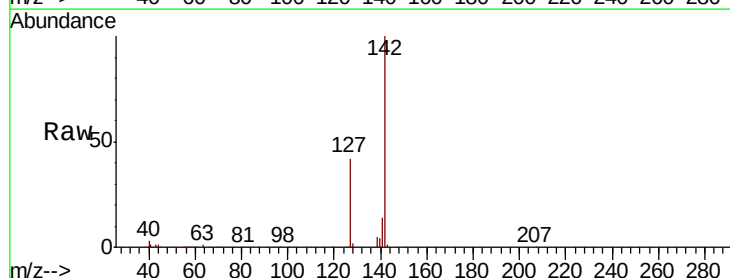
Tgt Ion:142 Resp: 517264

Ion Ratio Lower Upper

142 100

127 42.1 34.5 51.7

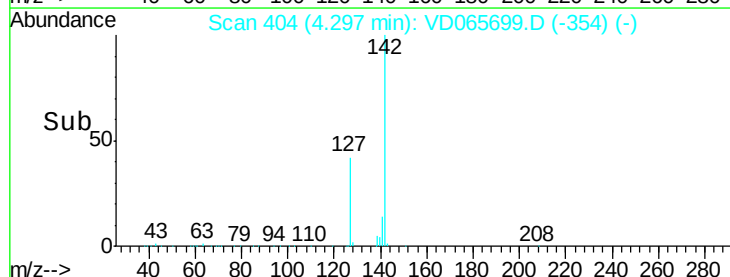
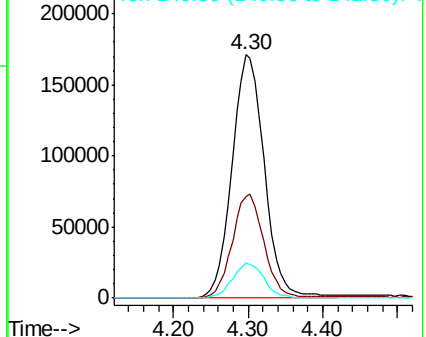
141 14.1 11.6 17.4

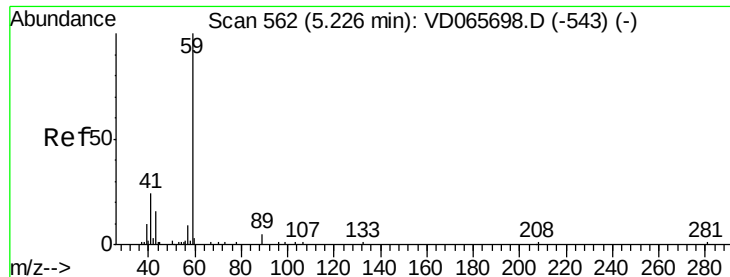


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



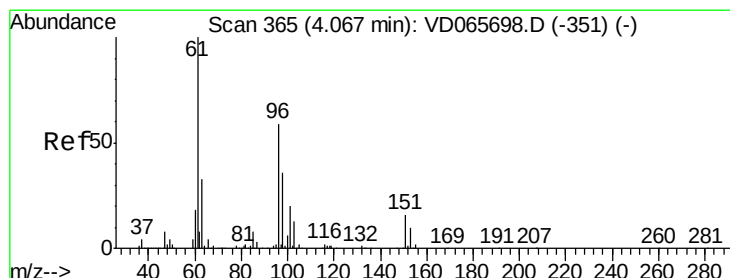
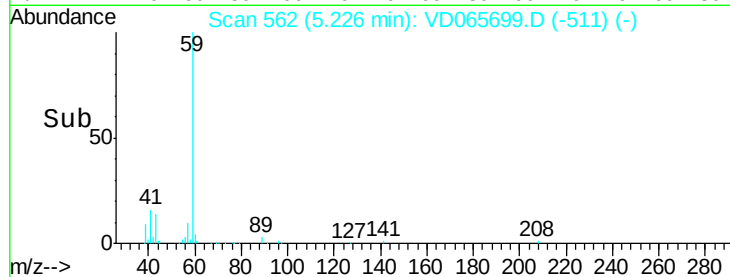
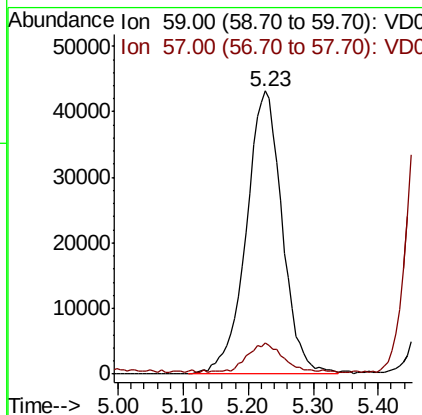
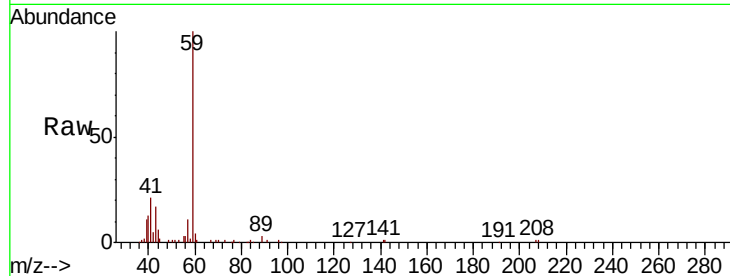


#11

Tert butyl alcohol
 Concen: 364.563 ug/l
 RT: 5.23 min Scan# 562
 Delta R.T. 0.00 min
 Lab File: VD065699.D
 Acq: 06 May 2020 16:05

Instrument :
 MSVOA_D
 ClientSampleId :

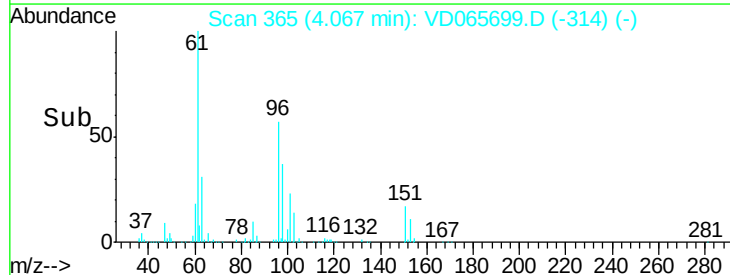
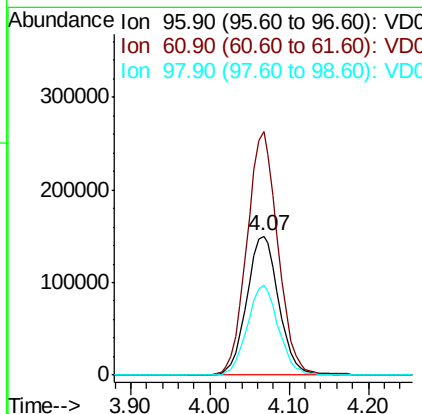
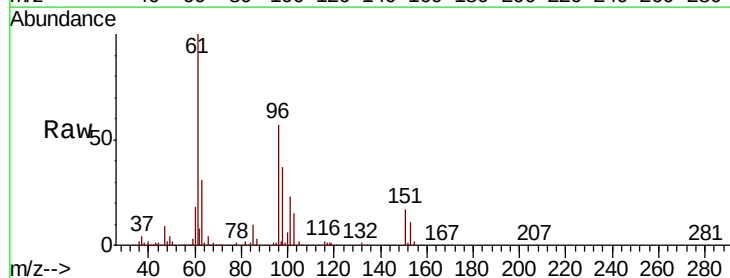
Tot Ion: 59 Resp: 165286
 Ion Ratio Lower Upper
 59 100
 57 9.5 8.7 13.1

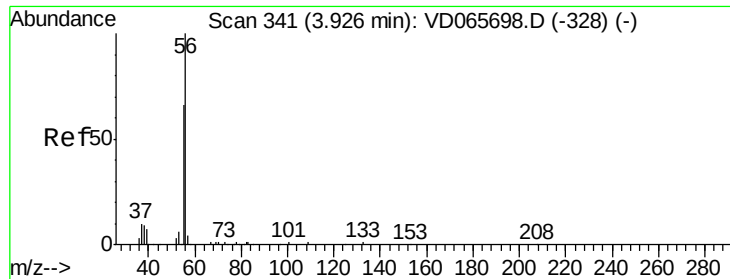


#12

1,1-Dichloroethene
 Concen: 94.500 ug/l
 RT: 4.07 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VD065699.D
 Acq: 06 May 2020 16:05

Tgt Ion: 96 Resp: 421266
 Ion Ratio Lower Upper
 96 100
 61 175.0 136.0 204.0
 98 64.8 49.7 74.5

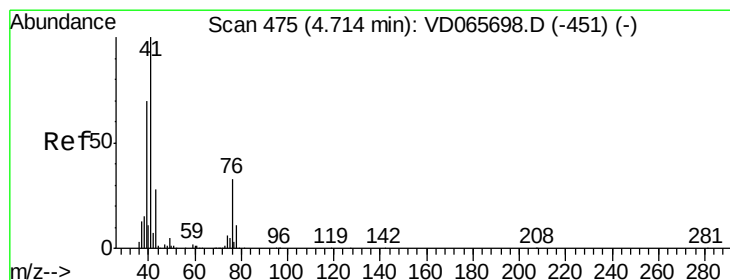
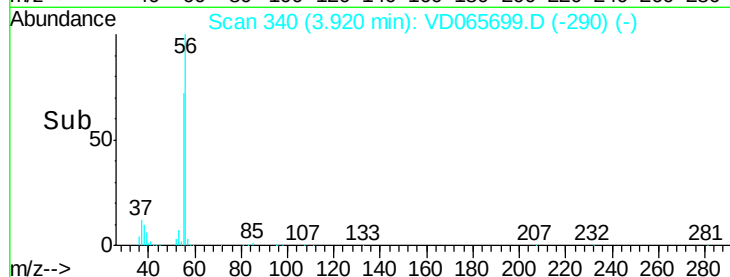
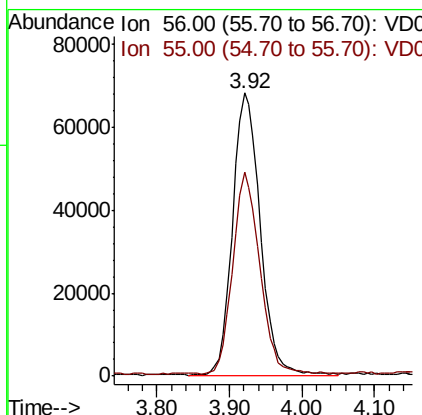
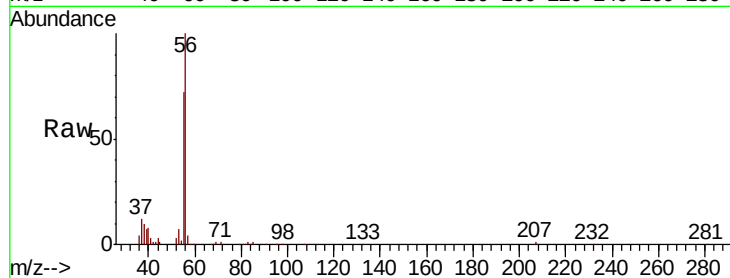




#13
 Acrolein
 Concen: 460.100 ug/l
 RT: 3.92 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VD065699.D
 Acq: 06 May 2020 16:05

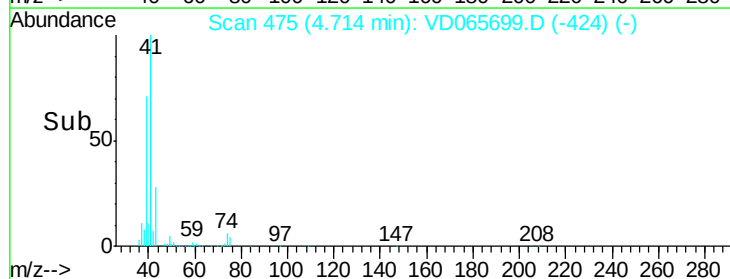
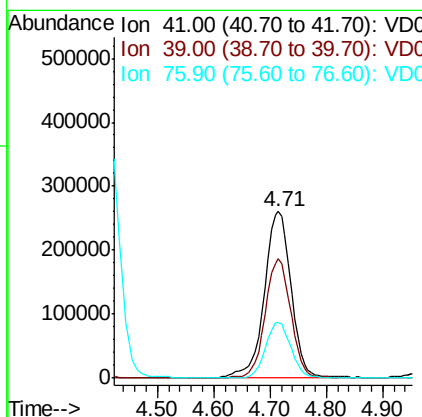
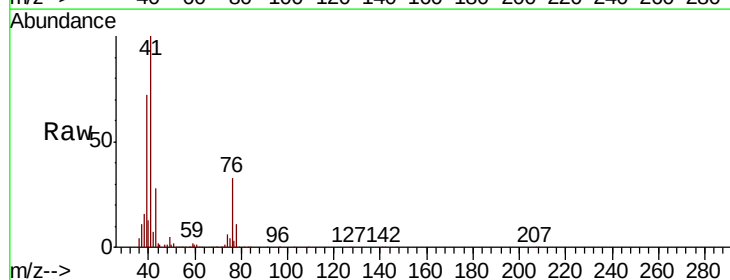
Instrument :
 MSVOA_D
 ClientSampleId :

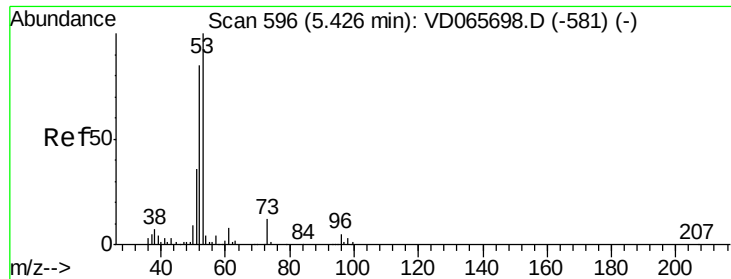
Tot Ion: 56 Resp: 179869
 Ion Ratio Lower Upper
 56 100
 55 69.6 56.7 85.1



#14
 Allyl chloride
 Concen: 96.107 ug/l
 RT: 4.71 min Scan# 475
 Delta R.T. 0.00 min
 Lab File: VD065699.D
 Acq: 06 May 2020 16:05

Tgt Ion: 41 Resp: 851211
 Ion Ratio Lower Upper
 41 100
 39 68.9 55.6 83.4
 76 31.6 25.6 38.4





#15

Acrylonitrile

Concen: 468.753 ug/l

RT: 5.43 min Scan# 596

Delta R.T. 0.00 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

Instrument :

MSVOA_D

ClientSampleId :

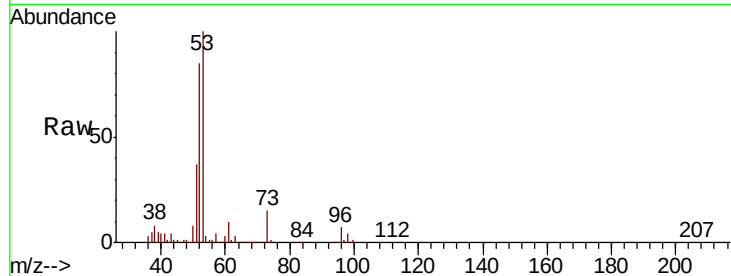
Tot Ion: 53 Resp: 520394

Ion Ratio Lower Upper

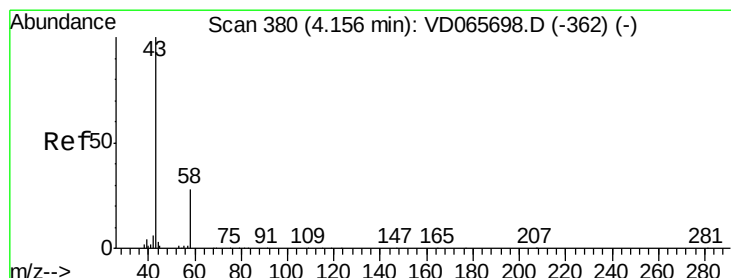
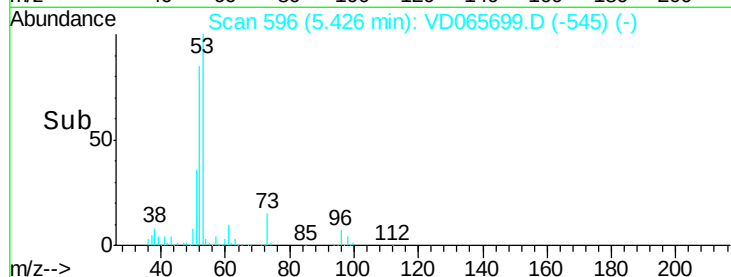
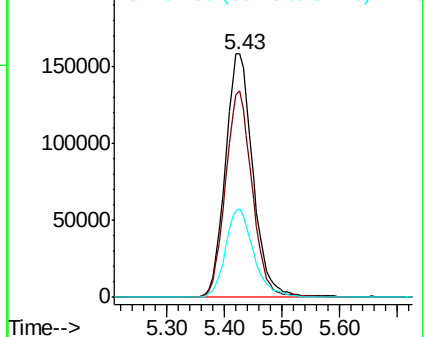
53 100

52 82.0 66.2 99.2

51 37.3 29.9 44.9



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 521.492 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD065699.D

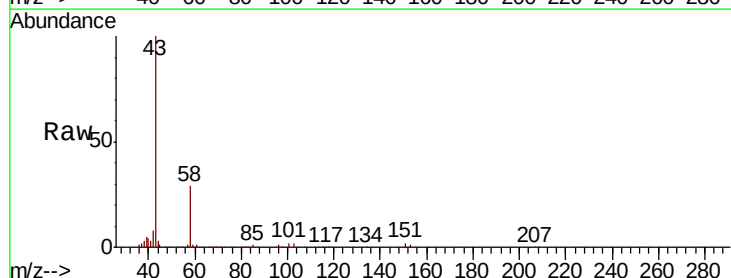
Acq: 06 May 2020 16:05

Tgt Ion: 43 Resp: 521048

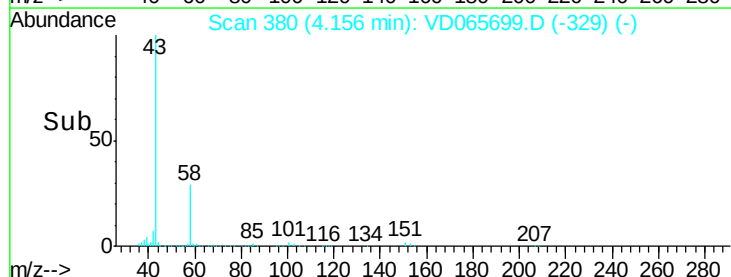
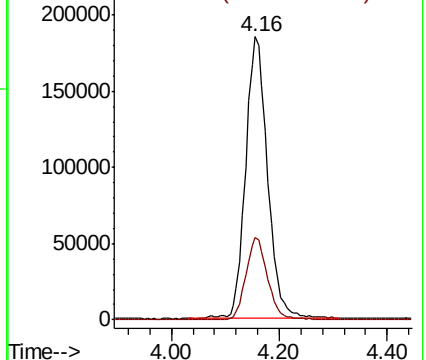
Ion Ratio Lower Upper

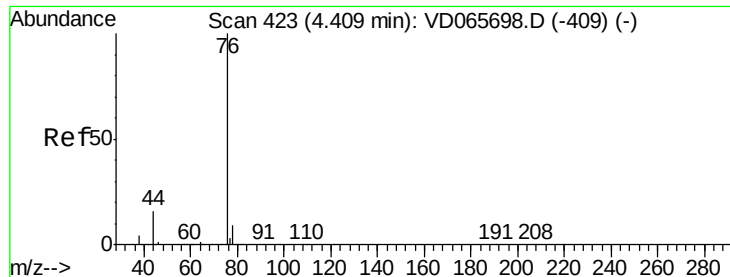
43 100

58 28.9 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 97.006 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD065699.D

Acq: 06 May 2020 16:05

Instrument :

MSVOA_D

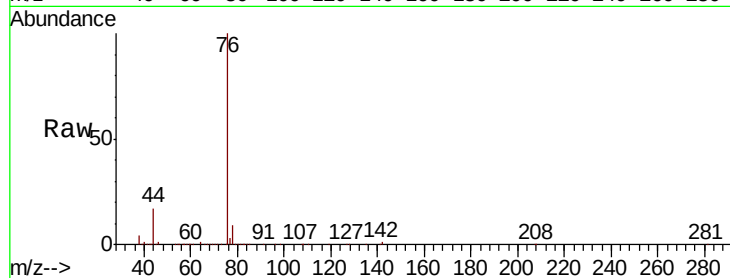
ClientSampled :

Tot Ion: 76 Resp: 1412051

Ion Ratio Lower Upper

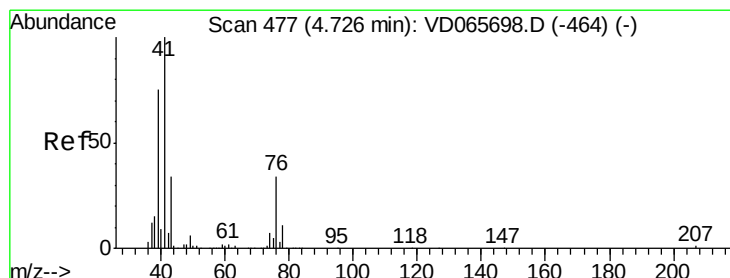
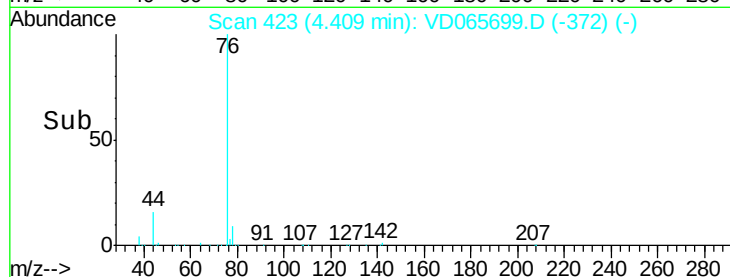
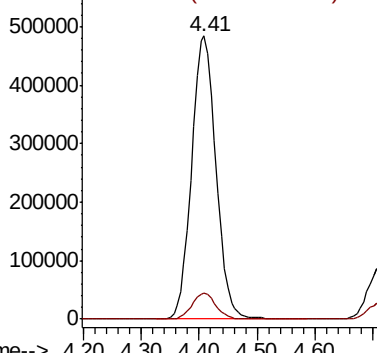
76 100

78 9.4 6.8 10.2



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 91.716 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065699.D

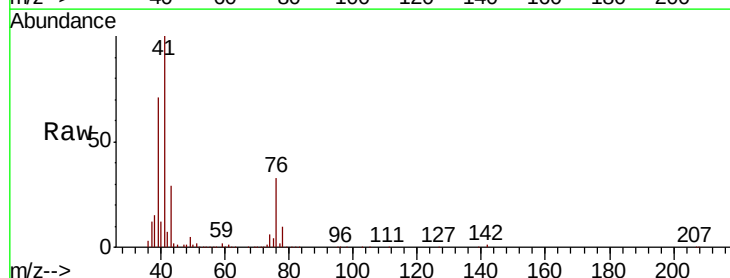
Acq: 06 May 2020 16:05

Tgt Ion: 43 Resp: 231602

Ion Ratio Lower Upper

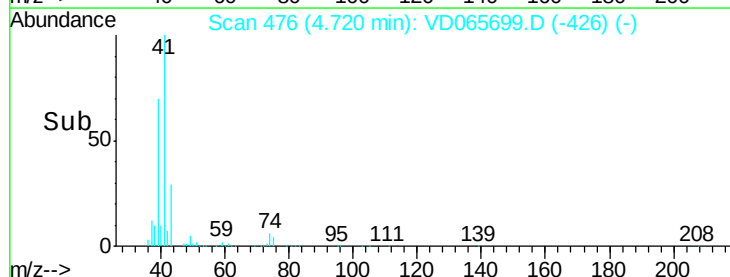
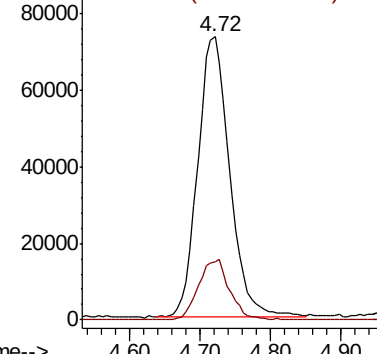
43 100

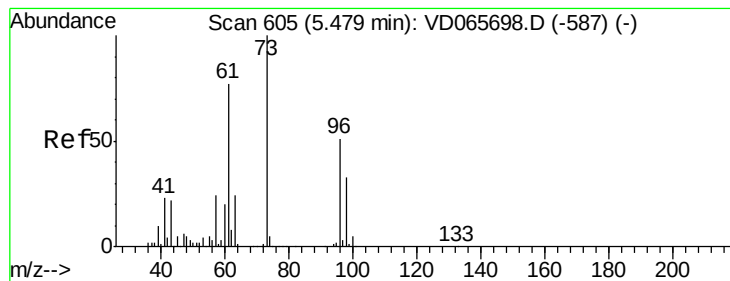
74 20.8 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19
Methyl tert-butyl Ether
Concen: 97.512 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD065699.D
Acq: 06 May 2020 16:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 73 Resp: 1050368
Ion Ratio Lower Upper
73 100
57 23.1 19.4 29.0

